M&T CASSETTE RECEIVER

KRC-709/779R/RY/889

SERVICE MANUAL

KENWOOD

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The CASSETTE MECHANISM OPERATION DESCRIPTION is the same model D40-1122-05.
Please refer to the service manual for model D40-1122-05(B51-7452-00).

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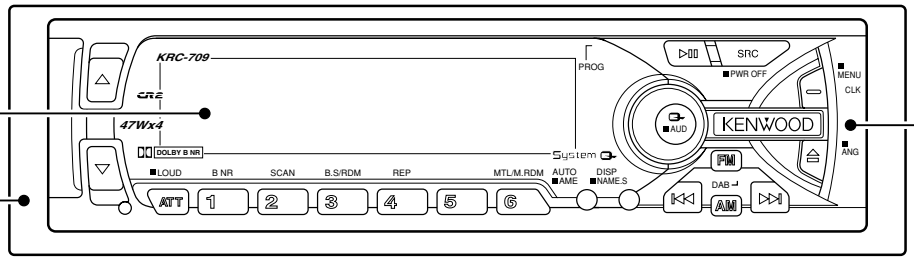

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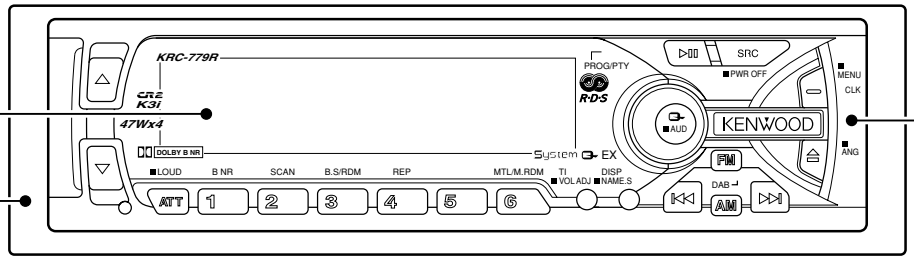

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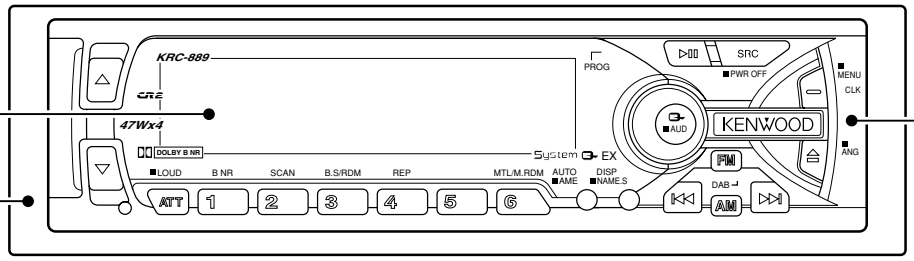

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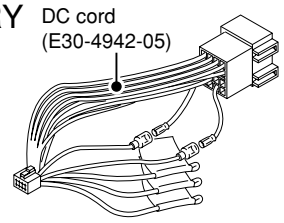

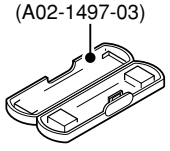

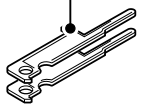

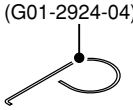

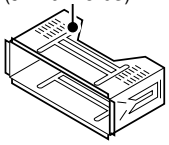

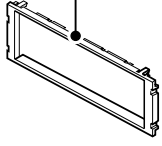

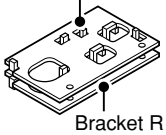

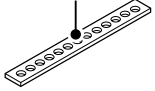

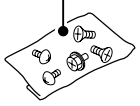

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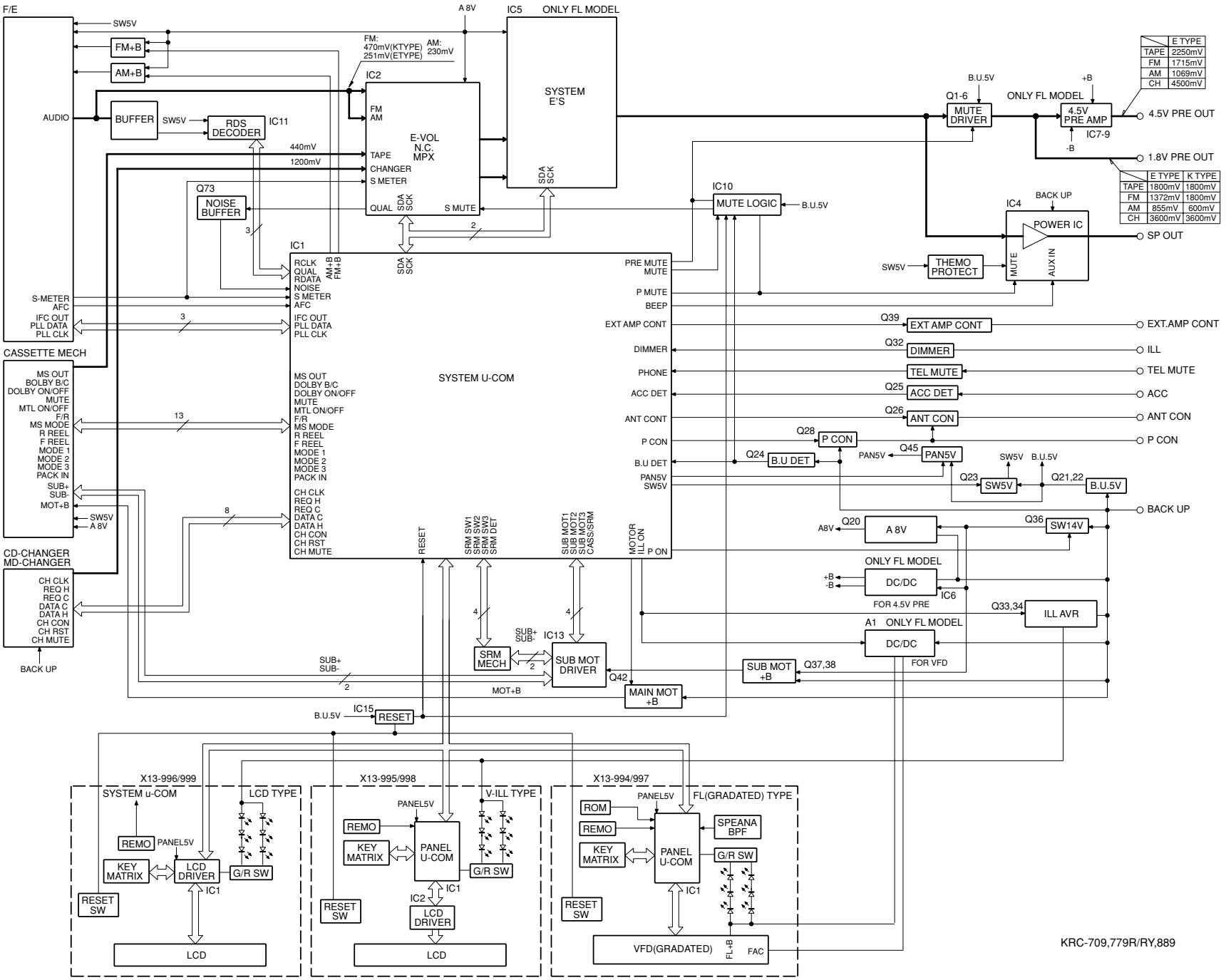
BLOCK DIAGRAM



KRC-709,779R/RY,889

COMPONENT DESCRIPTION

(X13-9960-10)
(X13-9992-73)

Component	Purpose • Function	Operation • Conditions • Compatibility
IC1	LCD Driver with Key Matrix	
IC2	Remote Control IC	
Q2	Key Detection SW	Q2 starts key scan in M&T.
Q3, 4	Key Illumination SW	Lights key illumination in Red when the base of Q3 is ON. Lights key illumination in Green when the base of Q4 is "H"
Q5	VLCD Reference Voltage Supply	Constant voltage circuit.
Q6	Remote Control IC Power Supply	Activates remote control when the base of Q6 is "L"
Q7	Dimmer SW	The base of Q7 is normally "H" but becomes "⎍⎍⎍" when DIMMER is ON.

(X14-644x-xx)
(X14-6452-73)

Component	Purpose • Function	Operation • Conditions • Compatibility
IC1	System u-com	
IC2	E-VOL, N.C, MPX	
IC3	Regulator IC for Audio 8V	
IC4	Power IC	
IC10	Mute logic IC	
IC11	RDS decoder	
IC13	Motor driver IC	
IC15	Reset IC	
Q1~4	PRE OUT MUTE SW	Pre outs are muted when the base goes "H".
Q18~20	Audio 8V AVR	Inverted darlington connection Q20 is turned ON when Q18's base goes "H".
Q21, 22	B.U 5V AVR	Inverted darlington connection Q22 is turned ON when Q21's base goes "H".
Q23	SW 5V	ON when the base goes "L".
Q24	B.U detection	ON when the base goes "H" during B.U applied.
Q25	ACC detection	ON when the base goes "H" during ACC applied.
Q26, 27	P-ANT SW	Q26 is turned ON when Q27's base goes "H".
Q28~31	P-CON SW	Q28 is turned ON when Q31's base goes "H".
Q32	Dimmer SW	ON when the base goes "H" while vehicle small lamps turn on.
Q33, 34, 44	Illumination AVR	ON when Q44's base goes "H".
Q36	SW 14V	ON when base goes "H".
Q37, 38	Motor driver supply	Q38 is turned ON when Q37's base goes "H".
Q39	External Amp Control	ON when the base goes "L".
Q41, 42	Cassette mecha main motor supply SW	Q42 is turned ON when Q41's base goes "H".
Q43	Motor driver's voltage SW	Base "H" ··· cassette mecha's submotor Base "L" ··· mask mecha's motor.
Q45, 46	Panel 5V SW	Q45 is turned ON when Q46's base goes "H".
Q71	Pre out mute driver	ON when the base goes "L".
Q72	E-VOL Mute SW	ON when the base goes "H".
Q73	Noise buffer	
Q85	IFC out buffer	
Q86, 88	AM+B SW	Q88 is turned ON when Q86's base goes "H".
Q87, 89	FM+B SW	Q89 is turned ON when Q87's base goes "H".
Q90	Composite out buffer	

(X87-3022-71)
(X87-3032-73)

Component	Purpose • Function	Operation • Conditions • Compatibility
IC1	Playback EQ, Dolby & Blank Detection	
Q1	Constant Switching in Blank Detection	Switches the time constant according to the PLAY or FF/REW mode.

MICROCOMPUTER'S TERMINAL DESCRIPTION

UPD703033GC050 (IC1: X14)

SYSTEM MICROCOMPUTER

Pin	Name	I/O	Purpose	Operation Description
1	AM+B	O	AM power supply terminal.	During AM operation: H.
2	FM+B	O	FM power supply terminal.	During FM operation: H. Last FM with RDS model: H
3	AFS	O	Constant switching when noise is detected.	During FM seek or AM search: L. During reception: H.
4	PLL-DATA	I/O	DATA input/output terminal from/to F/E.	
5	PLL-CLK	I/O	CLOCK input/output terminal from/to F/E.	
6	Evdd	-	Positive power supply terminal.	
7	GND	-	Grounding terminal.	
8	N.C	O	No connection.	
9	BEEP	O	Beep output terminal.	
10	REMO	I	Remote control input terminal.	
11	P-ON	O	SW 14 V control terminal.	Power ON: H. Power OFF: L.
12	P-STBY	O	Power IC STBY terminal control.	Power IC OFF: L. Power IC ON: H. During reset: Input.
13	IC2-SDA	I/O	IC2 DATA line.	
14	IC2-SCK	O	IC2 CLOCK line.	
15	P-MUTE	O	Power IC muting terminal.	Power OFF: L. All OFF: L. During TEL muting: L.
16	PRE-MUTE	O	Pre-Out muting terminal.	During momentary power down: L.
17	DIMMER CON	O	Dimmer control.	DIMMER: Pulse control. DIMMER OFF: H.
18	TEST	-	Test pin.	
19	P-CON	O	Power control terminal.	Power ON: H. Power OFF: L.
20	ANT-CON	O	Antenna control terminal.	TUNER, TI ON: H
21	MUTE	O	Muting terminal.	ON: Open. OFF: L. The time constant is 0.48 ms with all models.
22	N.C	O	No connection.	
23	ACC-DET	I	Acc detection terminal.	Acc detected: L. Acc not detected: H.
24	DIMMER	I	Small detection terminal.	ON: L. OFF: H.
25	SW-5V	O	5 V power supply terminal.	ON: L. OFF: H.
26	CH-MUTE	I	Muting request from CH.	ON: H. OFF: L.
27	CH-CON	O	CH control output.	ON: H. OFF: L.
28	CH-REQH	O	Request output to CH.	Requested: L.
29	CH-RST	O	Reset output to CH.	Normal: L. When the system is reset,turns H then L in 400 ms after recovery from reset.
30	EXT-AMP-CONT	O	External amplifier control terminal (In 200 ms).	L 40 ms: Bass boost OFF. L 70 ms: Bass boost LOW. L 100 ms: Bass boost HIGH.
31	RESET	I	Reset input terminal	Normal: H. Reset: L.
32	XT1	I	Sub-clock connection terminal.	The clock count is active even when Power is OFF.
33	XT2	-	Sub-clock connection terminal.	
34	REGC	-	Output terminal for the capacitor in the regulator in u-COM.	
35	X2	-	Main clock connection terminal.	Power ON: Oscillated. Power OFF or momentary power down: Oscillation stopped.

MICROCOMPUTER'S TERMINAL DESCRIPTION

UPD703033GC050 (IC1: X14)

SYSTEM MICROCOMPUTER

Pin	Name	I/O	Purpose	Operation Description
36	X1	I	Main clock connection terminal.	
37	Vss	-	Grounding terminal.	
38	Vdd	-	Positive power supply terminal.	
39	CLKOUT	O	Internal System Clock output.	
40	N.C	O	No connection.	
41	MOTOR	O	Cassette mechanism main motor output terminal.	When the motor is running: H. When it is stopped: L.
42	MODE3	I	Cassette mechanism mode detection terminal.	
43	MODE1	I	Cassette mechanism mode detection terminal.	
44	MODE2	I	Cassette mechanism mode detection terminal.	
45	N.C	O	Outputs Low. No connection.	
46	SUB1	O	Sub-motor output terminal (1).	
47	SUB2	O	Sub-motor output terminal (2).	
48	SUB3	O	Sub-motor output terminal (3).	
49	CAS/SRM	O	Cassette mechanism/SRM mechanism voltage switching terminal.	Cassette mechanism: H. SRM mechanism: L.
50	N.C	O	Outputs Low. No connection.	
51	N.C	O	Outputs Low. No connection.	
52	ILL-ON	O	FL +B output terminal.	ON: H, OFF: L
53	PAN-5V	O	Panel 5 V control terminal.	
54	N.C	O	Outputs Low. No connection.	
55	BVdd	-	Positive power supply terminal.	
56	BVss	-	Grounding terminal.	
57	TYPE1	I	Destination type switching port.	
58	TYPE0	I	Destination type switching port.	
59	N.C	O	Outputs Low. No connection.	
60	N.C	O	Outputs Low. No connection.	
61	ST TYPE1	I	IC2 destination type terminal.	Default: L.
62	ST TYPE0	I	IC2 destination type terminal.	Default: L.
63	SRM-SW1	I	Panel position detection switch 1.	
64	PAN-RESET	O	Reset output to Panel u-COM.	Normal: H. Reset: L. Panel detached: L. Momentary power down: L. Microcomputer overrun: L.
65	L CE	I/O	CE terminal for LCD driver.	
66	SRM-SW3	I	Panel position detection switch 3.	
67	SRM-SW2	I	Panel position detection switch 2.	
68	FWD/REV	O	TAPE EQ input switching terminal.	FWD: L. REW: H.
69	MS-CONT	I/O	Constant switching terminal in case of blank detection.	During TAPE PLAY: H. During TAPE FF/REW or other than TAPE input: L. Cassette mechanism detected: L. Cassette mechanism not detected: H.
70	AVCONT	O	AD reference voltage control output.	Same timing as P-ON. H during operation.
71	Avdd	-	Positive power supply terminal.	
72	Avss	-	Grounding terminal.	
73	Avref	I	Reference voltage supply terminal for A/D converter.	
74	PHONE	I	PHONE detection terminal.	TEL MUTE: No more than 1 V. NAVI MUTE:2.5 V or more.
75	R-REEL	I	Cassette mechanism reel pulse input (REV).	Vth = 2.5 V.

MICROCOMPUTER'S TERMINAL DESCRIPTION

UPD703033GC050 (IC1: X14)

SYSTEM MICROCOMPUTER

Pin	Name	I/O	Purpose	Operation Description
76	F-REEL	I	Cassette mechanism reel pulse input (FWD).	Vth = 2.5 V.
77	N.C	I	No connection.	Connected to GND.
78	SRM-DET	I	SRM mechanism detection.	SRM mechanism detected: L.
79	NOISE	I	FM noise detection terminal.	Model without RDS: Connected to GND.
80	S-METER	I	Signal meter detection terminal.	
81	R-DATA	I	RDS decoder DATA input terminal.	Model without RDS and RBDS: Connected to GND.
82	R-QUAL	I	RDS decoder QUAL input terminal.	Model without RDS and RBDS: Connected to GND.
83	IFC-OUT	I	F/E IFC OUT input terminal.	Station detected: L.
84	MUSIC	I	Music blank detection input.	Music signal detected: L. Music signal not detected: H.
85	PACK-DET	I	Cassette mechanism pack detection terminal.	Cassette pack detected: L. Cassette pack not detected: H.
86	DOLBY	O	Dolby ON/OFF switching.	ON: H. OFF: L.
87	R-CLK	I	RDS decoder CLK input terminal.	Model without RDS and RBDS: Connected to GND.
88	CH-REQC	I	Request input from CH.	ON: L.
89	KEY REQ	I	Communication request from LCD driver.	
90	N.C	I	No connection.	Connected to GND.
91	EQ-MUTE	O	EQ muting switching.	During TAPE PLAY: L. During TAPE FF/REW: H. Other than TAPE input: H.
92	MTL	O	NORMAL/METAL switching.	NORMAL: H. METAL: L.
93	BU-DET	I	Momentary power down detection terminal.	Back-Up detected: L. Back-Up not detected (momentary power down): H.
94	CH-DATAC	I	DATA input terminal from CH.	
95	CH-DATAH	O	DATA output terminal to CH.	
96	CH-CLK	I/O	CLOCK input/output terminal from/to CH.	
97	L DATAL	I	DATA line from LCD driver.	
98	L DATAS	I/O	DATA line to LCD driver.	
99	L CLK	I/O	CLK line to LCD driver.	
100	N.C	O	Outputs Low. No connection.	

TEST MODE

M&T-SRT 2001 Model Test Mode

1. How to enter the test mode

- While holding the FM and Preset 6 keys, reset the unit.

2. How to exit from the test mode

- While holding the Preset 6 key, reset the unit.
- (Note) The test mode cannot be terminated by Acc OFF, power OFF or momentary power down.

3. Initial status in the test mode

- Sources: All OFF.
- Display: All segments are lit.
- Volume: -10 dB (displayed as 30)
- Loudness: OFF
- CRSC: OFF regardless of the presence of switching function.
- SYSTEM Q: Flat.
- Blank Skip: OFF. (C/R model)
- LED: White for no scanning. (VLCD model)

4. Special display in Tuner mode

- When any of the following messages is displayed in Tuner mode, the front end may be abnormal.
- "TNE 2P NG": The EEPROM is set to the default (unstable values) because the F/E was shipped without passing through the adjustment process, etc.
- "TNCON NG": Communication with the F/E is not possible.

5. Forced switching of K3I

- Each press of the Preset 6 key in Tuner mode should switch K3I from AUTO → Forced Wide → Forced Middle → Forced Narrow → AUTO. The initial status is AUTO and the display shows these modes as follows.
- AUTO : FMA
- Forced Wide : FMW
- Forced Middle : FMM
- Forced Narrow : FMN

6. Test mode specifications of the CD receiver

- Forced ejection is inhibited in the reset start operation. When the unit is reset while a CD is loaded in it, the CD is not recognized by resetting.
- Each press of the Track Up key jumps to the following track numbers.
  No. 9 → No. 15 → No. 10 → No. 11 → No. 12 → No. 13 → No. 14 → No. 9 (The cycle restarts from here.)
- Each press of the Track Down key jumps to the previous track number to the track being played.

7. Audio-related specifications

- A short press of the Q key initiates the audio adjustment mode.
- Pressing the ✻ key on the remote initiates the audio adjustment mode.
- Continuous holding of a remote control key is inhibited.
- Bass, Middle and Treble are adjusted in 3 steps of Min/Center/Max with the Track Up/Down keys.
- Balance is adjusted in 3 steps of Left Max/Center/Right Max with the Track Up/Down keys.
- Fader is adjusted in 3 steps of Rear Max/Center/Front Max with the Track Up/Down keys.
- HPF is adjusted in 2 steps of Through/220 Hz with the Track Up/Down keys.
- LPF is adjusted in 2 steps of Through/120 Hz with the Track Up/Down keys.
- Bass f, Bass Q, Bass EXT, Middle f, Middle Q and Treble f are not dealt with by the audio adjustment.

8. Menu-related specifications

- A short press of the CLK key initiates the Menu mode.
- Pressing the DNPP/SBF key on the remote initiates the Menu mode.
- Continuous holding of a remote control key is inhibited.
- Calendar adjustment, calendar display switching and calendar memo are eliminated from the targets of continuous key holding. (FL model).
- In the color adjustment mode, pressing the Preset 1 key sets Red, 2 sets Blue, 3 sets Green and 4 sets Green. (VLCD model)
- Contrast is adjusted in 3 steps of 0/5/10 and the default is 5. (VLCD/LCD model)
- Brightness is adjusted in 3 steps of 0/5/10 and the default is 10. (Normal FL model)

9. Backup current measurement

- When the unit is reset while Acc is OFF (i.e. by turning Back-Up ON), the MUTE terminal goes OFF in 2 seconds in place of 15 second. (The panel, CD mechanism and TAPE mechanism are not activated at this time.)

TEST MODE

10. Special display when the display is All ON

Pressing the Preset keys while the power is All OFF displays the following information.

PRESET1	Version display (8 digits, Month/Day/Hour/Minute) (Display) SYS xxxxxxxx System microcomputer PAN xxxxxxxx Panel microcomputer
PRESET2	Serial No. display (8 digits) (Note) CD/R K type eXcelon model (Display) SNo. xxxxxxxx
PRESET3	Short press: View power ON time. (The All OFF period is not counted.) Long press/hold: Clear power ON time. (Display) PonTim xxxxx Max. 65535 (hours)
PRESET4	Short press: Display TAPE/CD/ MD operation time. Long press/hold: Clear TAPE/CD/MD operation time. (Display) CDTime xxxxx (CD/R) TapTim xxxxx (C/R) Max. 65535 (hours)
PRESET5	Short press: Display TAPE/CD/ MD ejection count. Long press/hold: Clear TAPE/CD/MD ejection count. (Display) EjeTim xxxxx Max. 65535 (times)
PRESET6	Short press: Display Panel open/close count. Long press/hold: Clear Panel open/close count. (Display) PnCnt xxxxx Max. 655350 (times)

11. Other specifications

- Automatic panel closing when a tape/CD is inserted is inhibited. (M&T model)
- Panel operation by turning power OFF/ON is inhibited. (M&T model)
- Pressing the ATT key opens or closes the panel. (M&T model)
- Messages such as "CODE OFF" are not displayed when power is turned ON.
- Pressing the TI (AUTO) key during changer operation turns 2zone ON. 2zone can be turned OFF by pressing the TI (AUTO) key again. The P/S dot lights while 2zone is ON.
- Pressing and holding the CLK key for a second in the All OFF status the Mask Key (security) write mode.

■ Security-related information

• Forced Power ON mode (All models)

Even when the security (Mask key) is approved, resetting the unit while holding the ATT and Preset 4 keys makes it possible to turn the power ON for 30 minutes. After 30 minutes have elapsed, it is not possible to return to the previous condition unless the unit is reset again.

• Method of registration of the security code after EEPROM (Tuner Unit Ass'y) replacement (Code security model)

1. Enter the test mode. (See 1 How to enter the test mode)
2. Press the CLK key to enter the security registration mode.
3. Enter the code using the Preset 1/2/3/4 keys.
   Example: To enter "3510"
   - Press the Preset 1 key 4 times.
   - Press the Preset 2 key 6 times.
   - Press the Preset 3 key twice.
   - Press the Preset 4 key once.
4. Press and hold the DISP key for 3 seconds until "APPROVED" is displayed.
5. Exit from the test mode. (See 2 How to exit from the test mode)
   (Note) All Clear is not applicable to the security code of this model.

• Simplified method of clearing the security code (K Type only)

1. While the code entry is requested, press and hold the VOL UP key for 3 seconds while holding the DISP key pressed.(This should turn ---- off.)
2. Enter "KCAR" from the remote. (Same way as the 00 model)
   Press the 5 key on the remote twice, then press the Track Up key. (This enters "K")
   Press the 2 key on the remote 3 times, then press the Track Up key. (This enters "C")
   Press the 2 key on the remote once, then press the Track Up key. (This enters "A")
   Press the 7 key on the remote twice, then press the Track Up key. (This enters "R")
3. The security code is cleared and the unit enters the All OFF mode.
4. If you commit a mistake in the code entry, the unit enters the code request mode again.

TEST MODE

- **Method of writing the Mask key while the EEP-ROM is in the initial status**

1. Enter the test mode. (See 1 How to enter the test mode)
2. Press the CLK key to enter the Mask key registration mode. "TRANSMIT1" should be displayed now. The display at this time should show "< >" in place of "[ ]".
3. Point the Mask key remote toward the light sensor, and press and hold its key for more than 0.5 second.
4. When "TRANSMIT2" is displayed, press and hold the key on the Mask key remote for more than 0.5 second again. The first and second counter codes are not compared at this time.
5. When "APPROVED" is displayed, the write operation is complete. Now the demonstration mode is initiated and the test mode is terminated.
   (Note) In the same way as previous models, if 30 minutes have elapsed with no code written, an error occurs and the power is turned OFF.

- **Method of initializing the Mask key (How to reset the unit from the Mask key approved condition to the factory condition)**

1. Enter the test mode. (See ① How to enter the test mode)
2. "TRANSMIT1" is displayed and the Mask key entry request mode is initiated.
   The display at this time should show "✻✻" in place of "[ ]".
3. Press and hold the key on the Master key remote for more than 3 seconds.
4. When "TRANSMIT2" is displayed, press and hold the key on the Master key remote for more than 3 seconds.
5. When "APPROVED" is displayed, the Mask key is cleared, the demonstration mode is initiated, the test mode is terminated and the unit returns to the factory condition.

- **Method of clearing all Mask key-related data**

1. Enter the test mode. (See ① How to enter the test mode)
2. Press the CLK key to enter the Mask key registration mode. "TRANSMIT1" should be displayed now.
3. Point the Master key remote toward the light sensor, and press and hold its key for more than 3 seconds (until the level display shows the full condition).
4. When "TRANSMIT2" is displayed, hold the key on the Mask key remote for more than 3 seconds again.
   If "TRANSMIT1" is displayed in place of "TRANSMIT2", restart the procedure from step 3.
5. When "APPROVED" is displayed, all security data is cleared and the unit returns to the condition before Mask key writing with the EEPROM in the initial status.

ADJUSTMENT

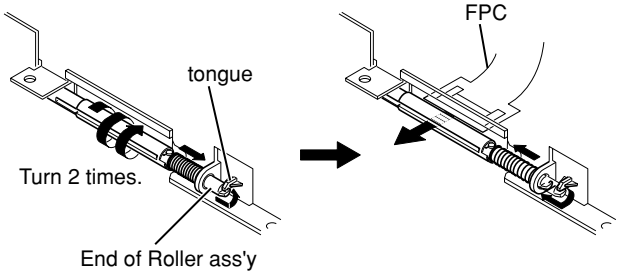
Set the controls and switches as follows.
BALANCE :center position BASS :center position LOUD :OFF DOLBY NR :OFF
FADER :center position TREBLE :center position

No	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	TUNER (RECEIVER) SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
CASSETTE DECK SECTION							
[1]	AZIMUTH	TCC-153 10kHz	Connect a AC voltmeter to SP OUT	TAPE PLAY	Head Azimuth Screw	Adjust the azimuth for each Lch/Rch or FWD/RVS becomes maximum	
[2]	PLAY BACK LEVEL	TCC-130	Connect a AC voltmeter to CN2	TAPE PLAY	VR1 (L) VR2 (R) (X87)	387.5mV (-6dBm)	

ATTENTION

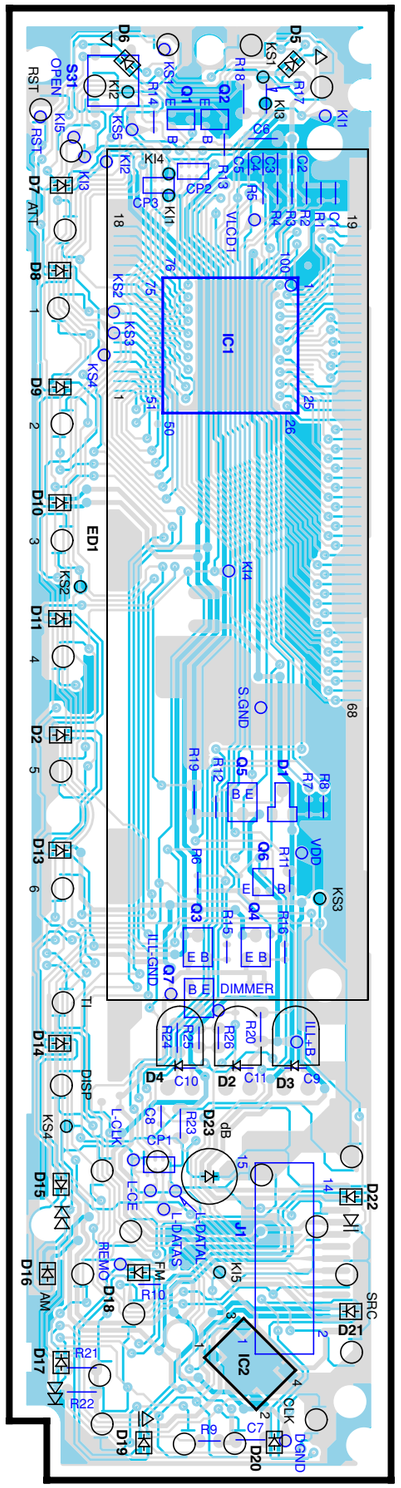
Assembly of FPC(Flexible PC board) onto Roller ass'y

Turn Roller ass'y by 2 times.
Hook the end of Roller ass'y to the tongue.
Insert the FPC into the slit of Roller ass'y then release the end of Roller ass'y and the tongue.

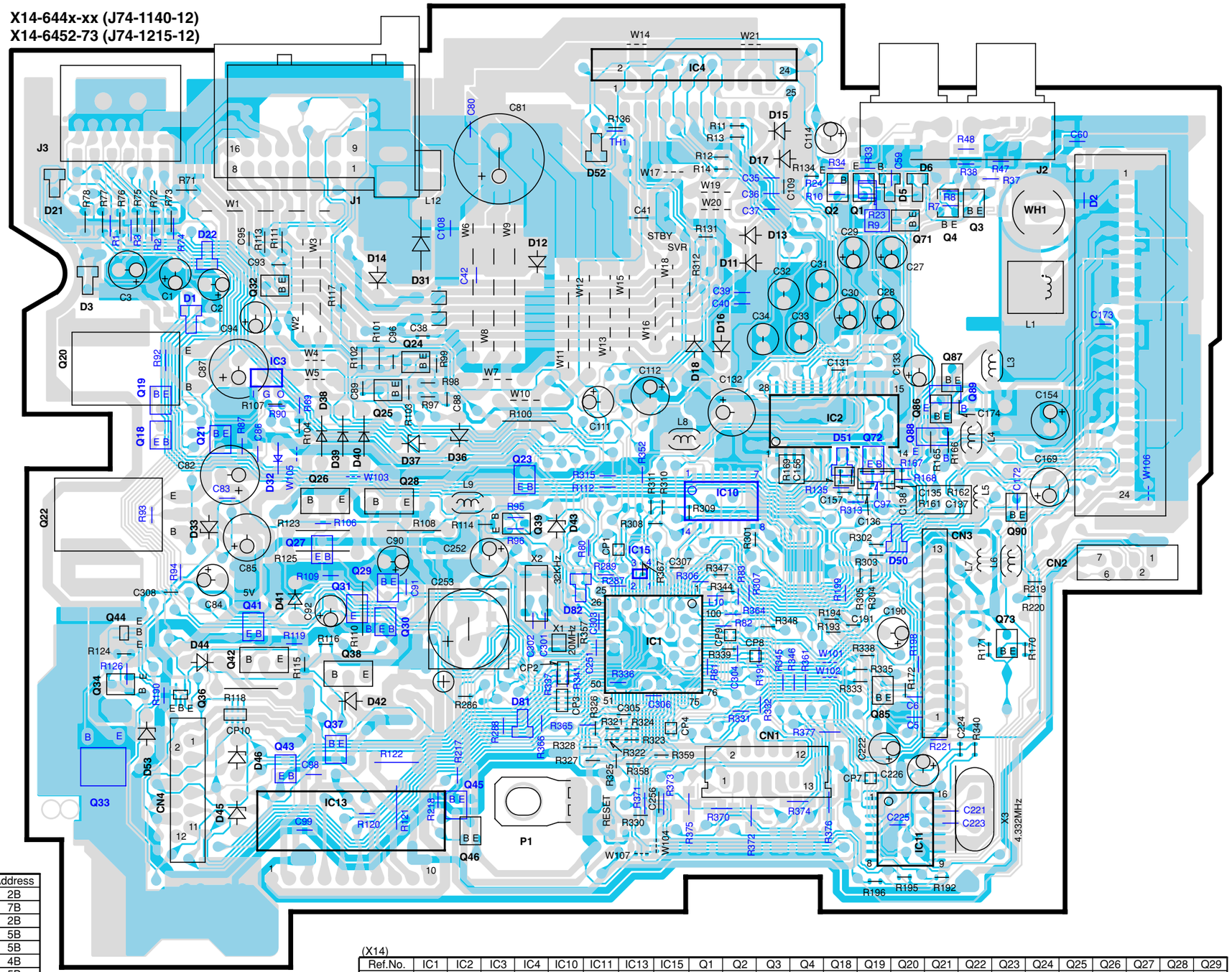


PC BOARD (Component side view)

X13-9960-10 (J74-1138-12)
X13-9992-73 (J74-1221-12)



X14-644x-xx (J74-1140-12)
X14-6452-73 (J74-1215-12)



(X13)

Ref.No.	Address
IC1	2B
IC2	7B
Q2	2B
Q3	5B
Q4	5B
Q5	4B
Q6	5B
Q7	5B

(X14)

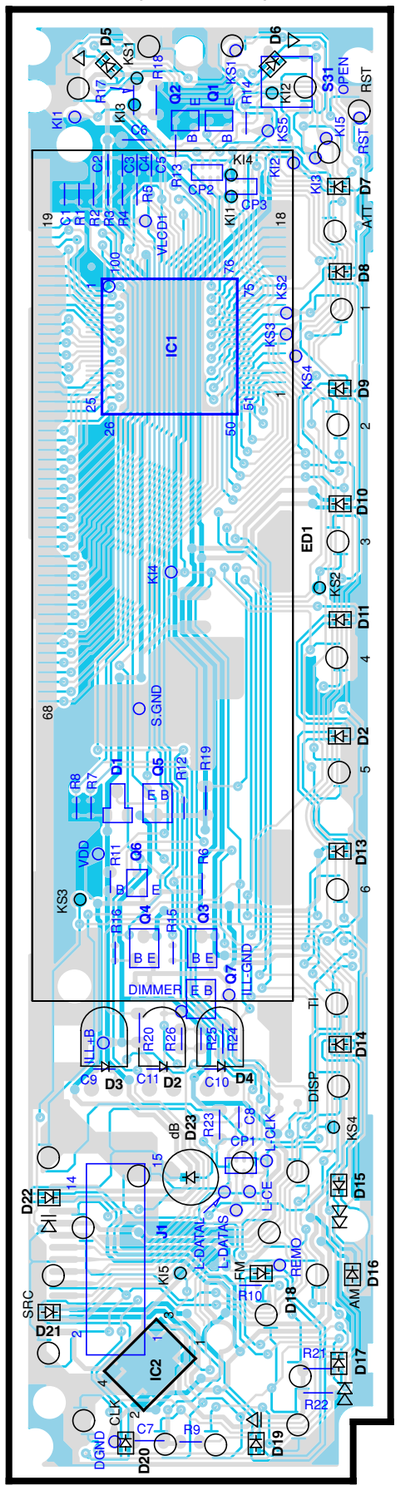
Ref.No.	IC1	IC2	IC3	IC4	IC10	IC11	IC13	IC15	Q1	Q2	Q3	Q4	Q18	Q19	Q20	Q21	Q22	Q23	Q24	Q25	Q26	Q27	Q28	Q29
Address	5G	4H	3D	2G	4G	6H	6E	4F	2H	2H	2H	3H	4D	3D	3C	4D	4C	4F	3E	3E	4E	4E	4E	4E

Ref.No.	Q30	Q31	Q32	Q33	Q34	Q36	Q37	Q38	Q39	Q41	Q42	Q43	Q44	Q45	Q46	Q71	Q72	Q73	Q85	Q86	Q87	Q88	Q89	Q90
Address	5E	5E	3D	6C	5C	5D	5E	5E	4F	5D	5D	5D	5D	6E	6E	3H	4H	5I	5H	4H	3H	4H	3H	4I

Refer to the schematic diagram for the value of resistors and capacitors.

PC BOARD (Foil side view)

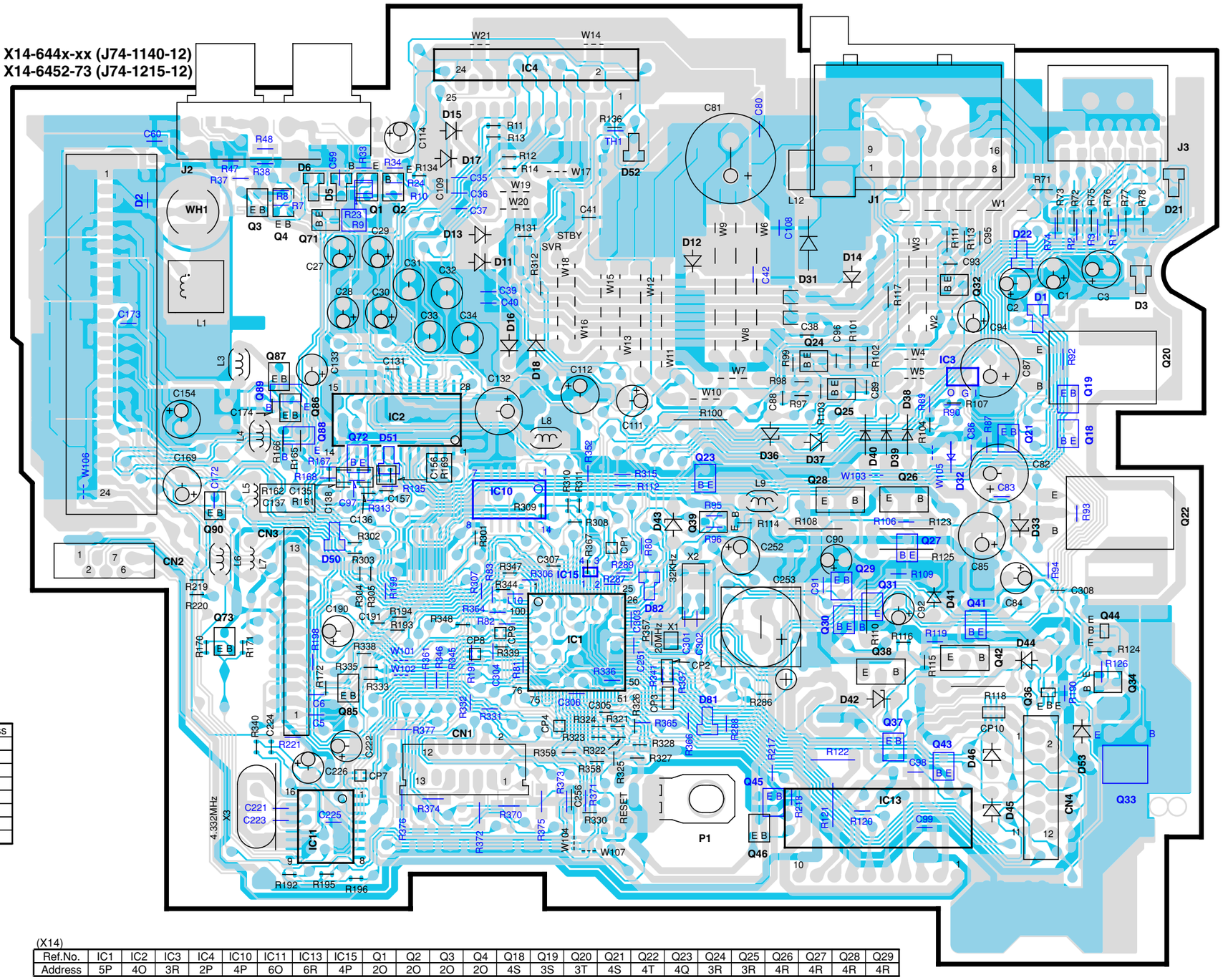
X13-9960-10 (J74-1138-12)
X13-9992-73 (J74-1221-12)



(X13)

Ref.No.	Address
IC1	2L
IC2	7L
Q2	2L
Q3	5L
Q4	5L
Q5	4L
Q6	5L
Q7	5L

X14-644x-xx (J74-1140-12)
X14-6452-73 (J74-1215-12)



(X14)

Ref.No.	IC1	IC2	IC3	IC4	IC10	IC11	IC13	IC15	Q1	Q2	Q3	Q4	Q18	Q19	Q20	Q21	Q22	Q23	Q24	Q25	Q26	Q27	Q28	Q29
Address	5P	4O	3R	2P	4P	6O	6R	4P	2O	2O	2O	2O	4S	3S	3T	4S	4T	4Q	3R	3R	4R	4R	4R	4R

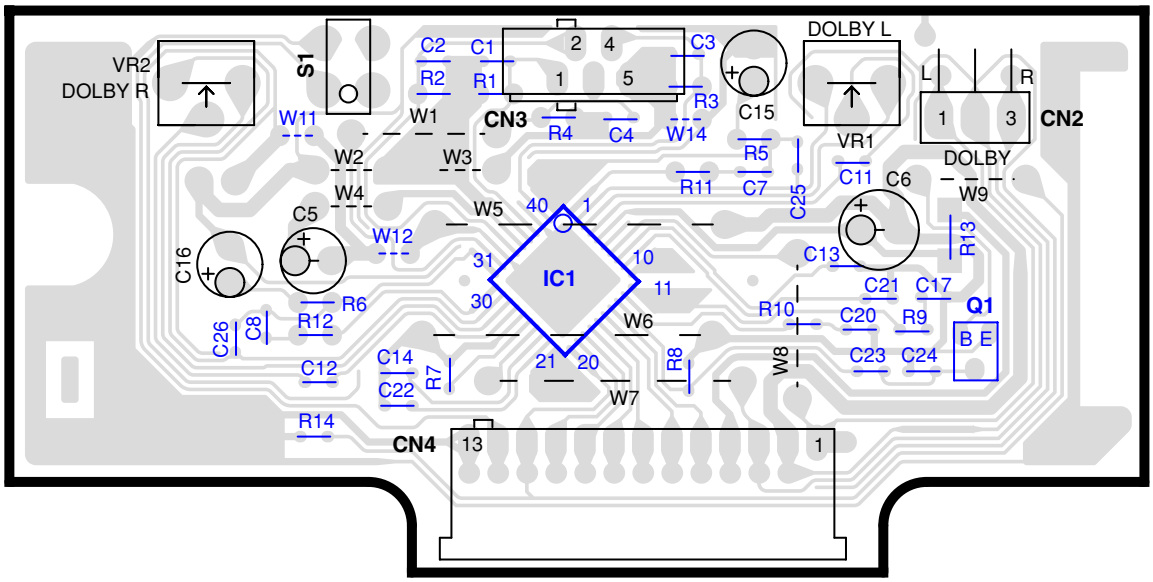
Ref.No.	Q30	Q31	Q32	Q33	Q34	Q36	Q37	Q38	Q39	Q41	Q42	Q43	Q44	Q45	Q46	Q71	Q72	Q73	Q85	Q86	Q87	Q88	Q89	Q90
Address	5R	5R	3R	6S	5S	5S	5R	5R	4Q	5R	5R	5R	5S	6Q	6Q	3O	4O	5N	5O	4O	3O	4O	3O	4N

Refer to the schematic diagram for the value of resistors and capacitors.

PC BOARD

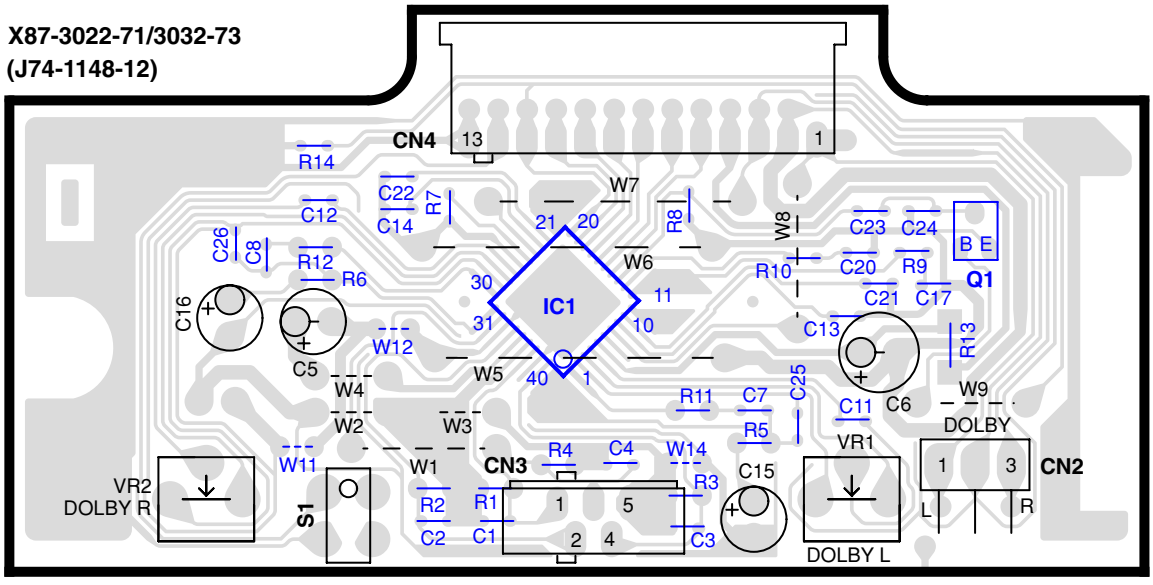
Component side view

X87-3022-71/3032-73 (J74-1148-12)

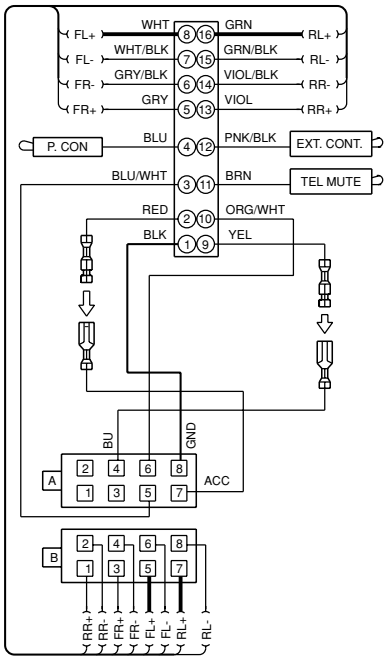


Foil side view

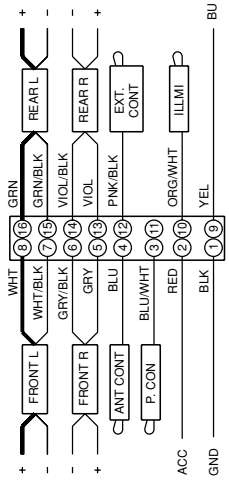
X87-3022-71/3032-73
(J74-1148-12)



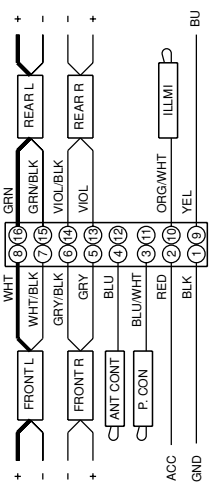
Refer to the schematic diagram for the value of resistors and capacitors.



DC CORD
(E30-4942)
KRC-779R/RY/V879R/RY



DC CORD
(E30-4939)
KRC-889



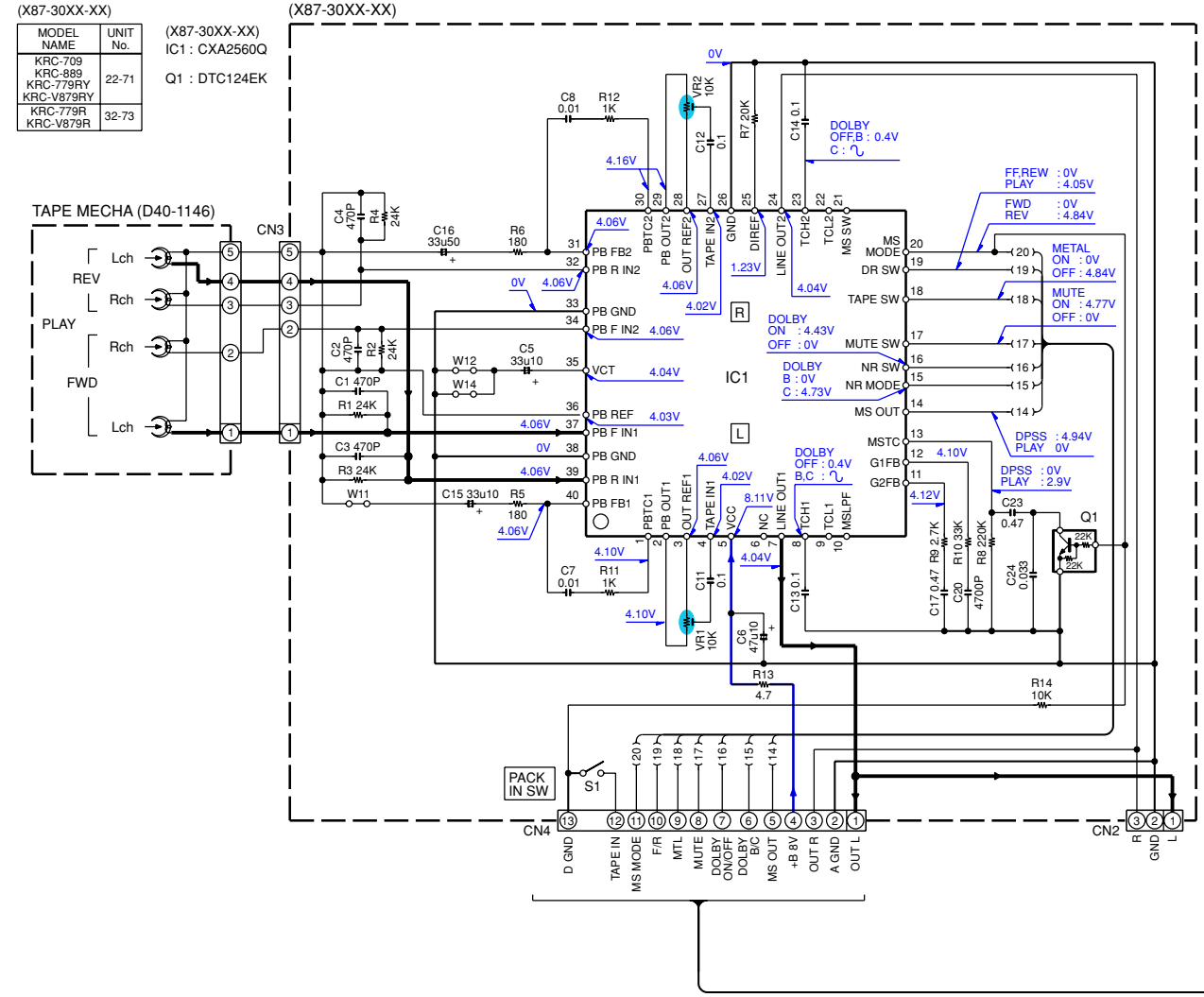
DC CORD
(E30-4940)
KRC-709

(X87-30XX-XX)

MODEL NAME	UNIT No.
KRC-709 KRC-889 KRC-779RY KRC-V879RY	22-71
KRC-779R KRC-V879R	32-73

(X87-30XX-XX)
IC1 : CXA2560Q

Q1 : DTC124EK



F G H I J K L M N O

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

The DC voltage is an actual reading measured with a high impedance type voltmeter with no signal input. The measurement value may vary depending on the measuring instruments used or on the product.

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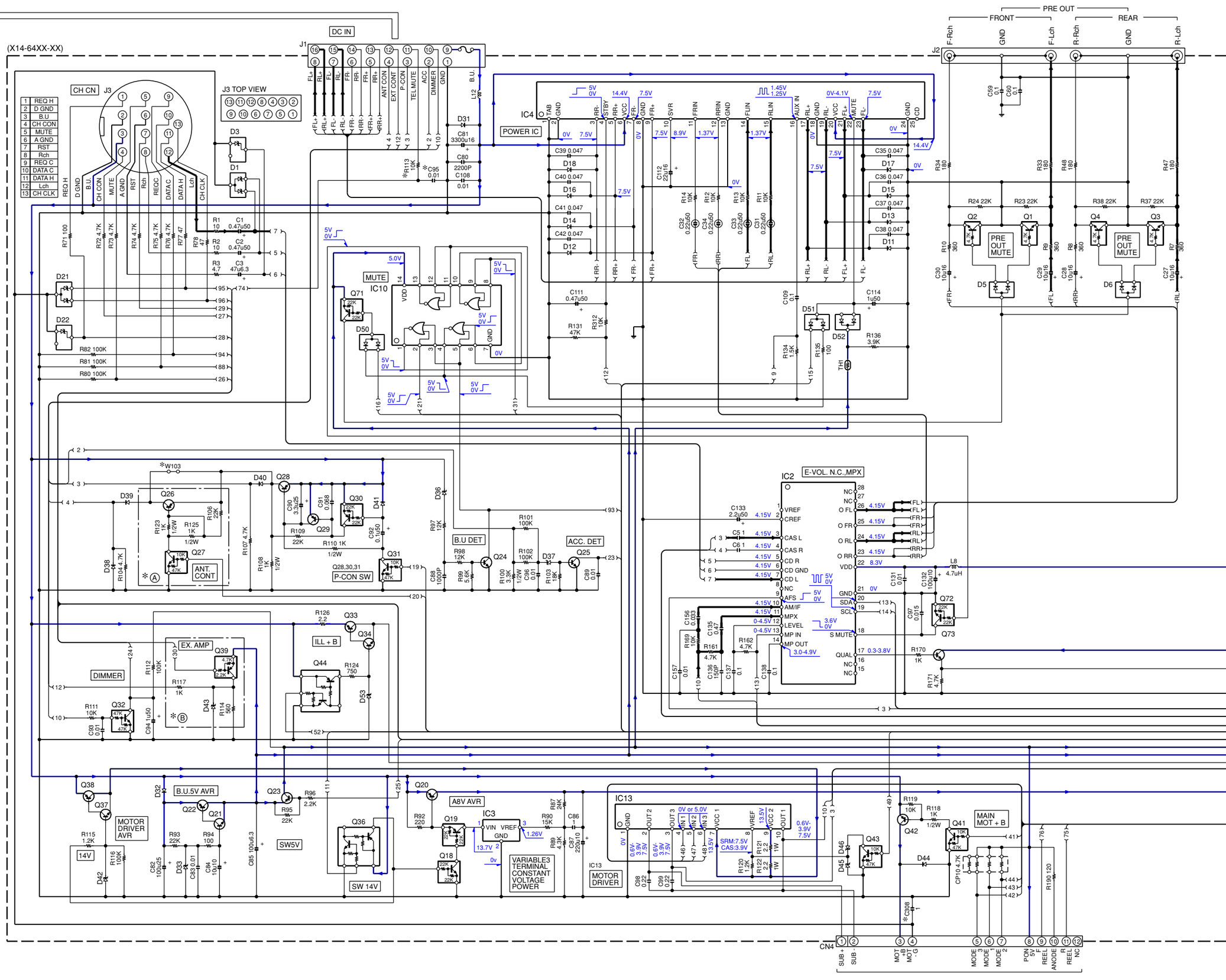


P Q R S T U V W X Y

IC1 : *
IC2 : TDA7407D
IC3 : M5237ML
IC4 : TA8263BH
IC10 : TC74HCO2AF
IC11 : TDA7479D
IC13 : BA6238A
IC15 : S-80837ANNP

D1 : RD6.8MW
D2 : *
D3,22 : MA3062-M
D5,6,50,51 : DAP202K
D11-18,38-40,44 : AM01Z
D21 : MA3062WA
D31 : RM1OZLF
D32 : RB160L-40
D33,36 : MA4056(N)-M
D37 : MA4062(N)-M
D41 : 1SS133
D42 : MA4220-H
D43 : MA4056-M
D45 : MA4075-M
D46 : MA4036-H
D52,82 : DAN202K
D53 : MA4110-L
D81 : MA3047-M

Q1-4 : DTC143TK
Q18,72,86,87 : DTC124EK
Q19,30,71 : DTA124EK
Q20,22 : 2SB1548(P)
Q21,24,25,34,37,73,90 : 2SC2412K
Q23,29 : 2SA1037K
Q26,28 : 2SB1277(Q,R)
Q27,31,41,43 : DTC114YK
Q32,46 : DTC144EK
Q33 : 2SB1184
Q36,44 : UMC2N
Q38,42 : 2SB1443
Q39 : DTA123JK
Q45 : 2SA1576A
Q85 : DTC144EUA
Q88,89 : 2SB1188(Q,R)

SIGNAL LINE
GND LINE
+B LINE

(X16-118X-XX)

MODEL NAME	UNIT No.
KRC-709 KRC-889 KRC-779RY KRC-V879RY	0-10
KRC-779R KRC-V879R	2-72

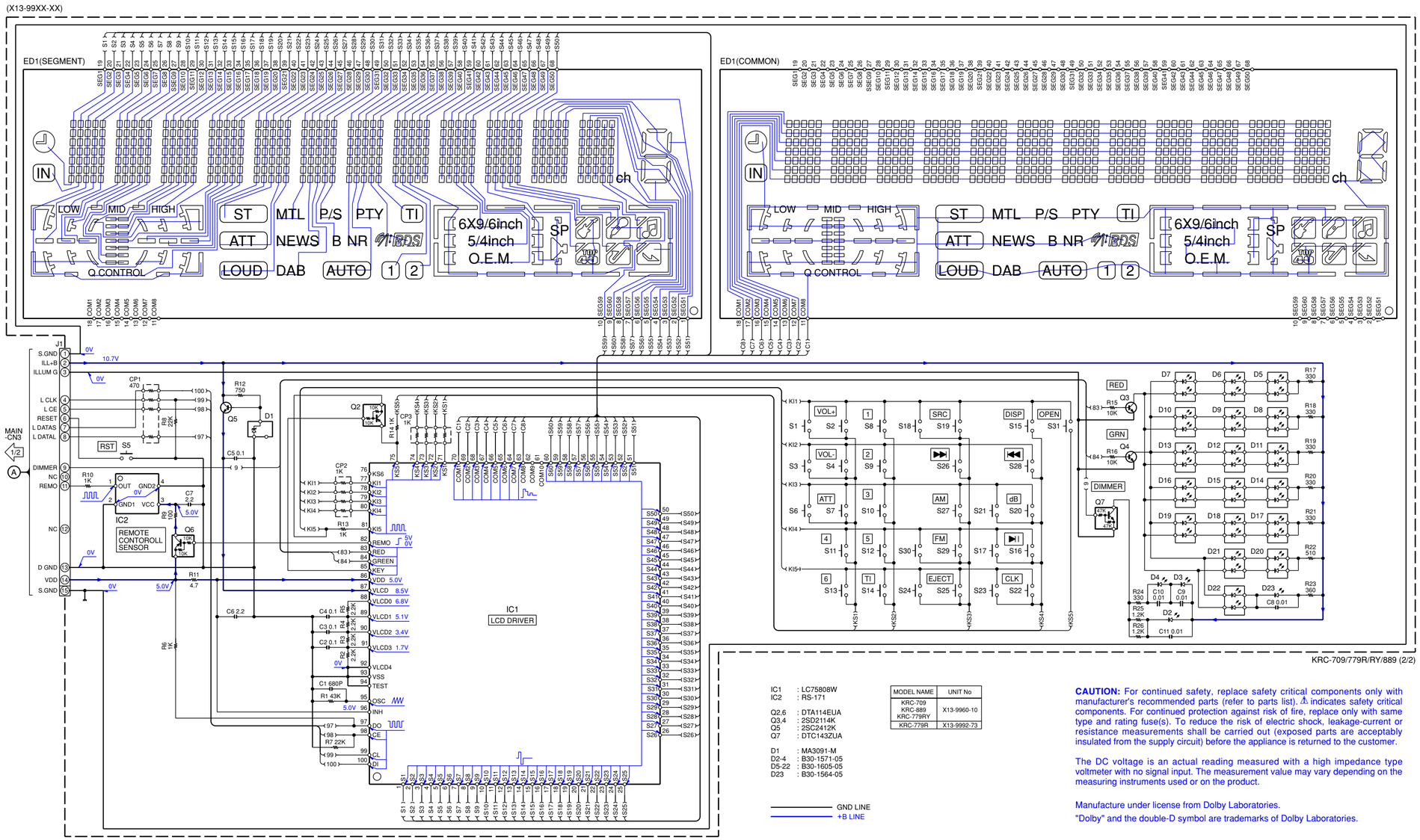
KRC-V879R(V879RY,779R,779RY,709,889)

MODEL NAME	UNIT No.	Ⓐ	Ⓑ	©	A1	IC1	CP7	D2	D81	Q90	C95, 172	C169	C173	C174	C308	R113,219, 286,340	R288	R321	R322,336, 337,341	R323	R324	R330,346, 358,376	R347	R367	W101	W102	W103
KRC-V879R	X14-6452-70 X14-6452-72	NO	YES	YES	X86-3342-71	UPD703033GC049	YES	SA-2012-101TB	YES	YES	YES	YES	NO	NO	NO	YES	22K	NO	NO	NO	NO	YES	NO	470	YES	NO	YES
KRC-V879RY	X14-6442-70	NO	YES	YES	X86-3242-70	UPD703033GC049	YES	IMSA-6801	YES	YES	YES	YES	NO	NO	NO	YES	22K	NO	NO	NO	NO	YES	NO	470	YES	NO	YES
KRC-779R	X14-6452-71 X14-6452-73	NO	YES	YES	X86-3342-71	UPD703033GC050	YES	SA-2012-101TB	YES	YES	YES	NO	YES	NO	YES	YES	22K	YES	NO	NO	YES	NO	YES	1K	NO	YES	YES
KRC-779RY	X14-6442-71	NO	YES	YES	X86-3242-70	UPD703033GC050	YES	IMSA-6801	YES	YES	YES	NO	YES	NO	YES	YES	22K	YES	NO	NO	YES	NO	YES	1K	NO	YES	YES
KRC-709	X14-6440-11	YES	NO	NO	X86-3240-11	UPD703033GC050	NO	IMSA-6801	NO	NO	NO	NO	NO	YES	YES	NO	100K	NO	YES	YES	NO	NO	YES	1K	NO	YES	NO
KRC-889	X14-6440-21	YES	YES	NO	X86-3240-11	UPD703033GC050	NO	IMSA-6801	NO	NO	NO	NO	NO	YES	YES	NO	100K	NO	YES	YES	NO	NO	YES	1K	NO	YES	NO

KRC-779R/RY/V879R/RY (1/2)

KRC-709,779R/RY,889

KENWOOD



IC1 : LC75808W
IC2 : RS-171

Q2,6 : DTA114EUA
Q3,4 : 2SD2114K
Q5 : 2SC2412K
Q7 : DTC143ZUA

D1 : MA3091-M
D2-4 : B30-1571-05
D5-22 : B30-1605-05
D23 : B30-1564-05

GND LINE
+B LINE

MODEL NAME	UNIT No
KRC-709 KRC-889 KRC-779RY	X13-9960-10
KRC-779R	X13-9992-73

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

The DC voltage is an actual reading measured with a high impedance type voltmeter with no signal input. The measurement value may vary depending on the measuring instruments used or on the product.

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DTA123JK 2SA1576A
DTA124EK 2SC2412K
DTC114YK 2SD2114K
DTC124EK
DTC143TK
DTC143ZK
DTC144EK

2SB1188

2SB1184

2SB1548

2SB1277
2SB1443

2SA1037K

DTA114EUA
DTC144EUA

UMC2N

BA6238A

DAN202K

DAP202K

TC74HC02AF

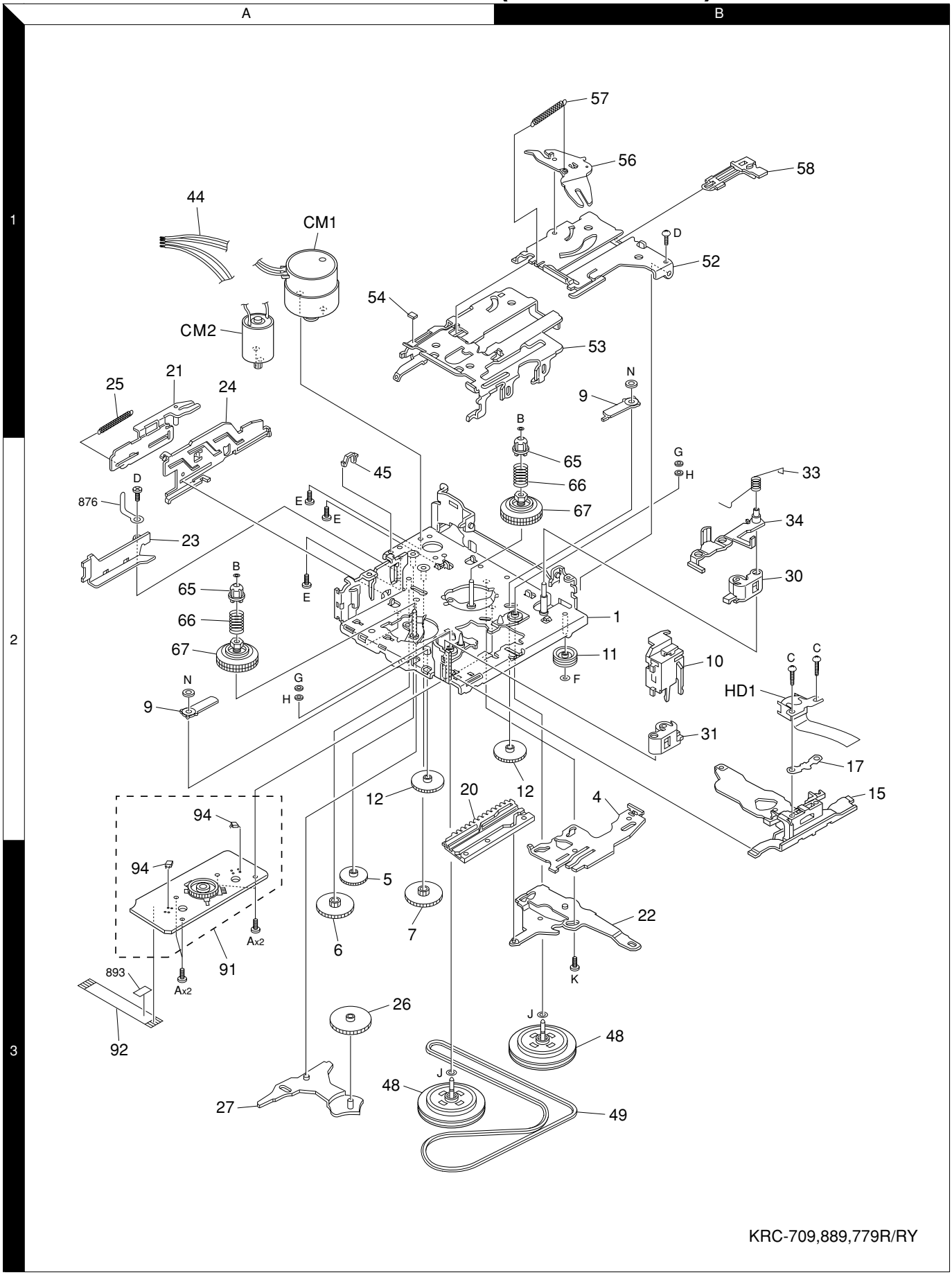
M5237ML

TDA7479D

KRC-709,779R/RY,889

KENWOOD

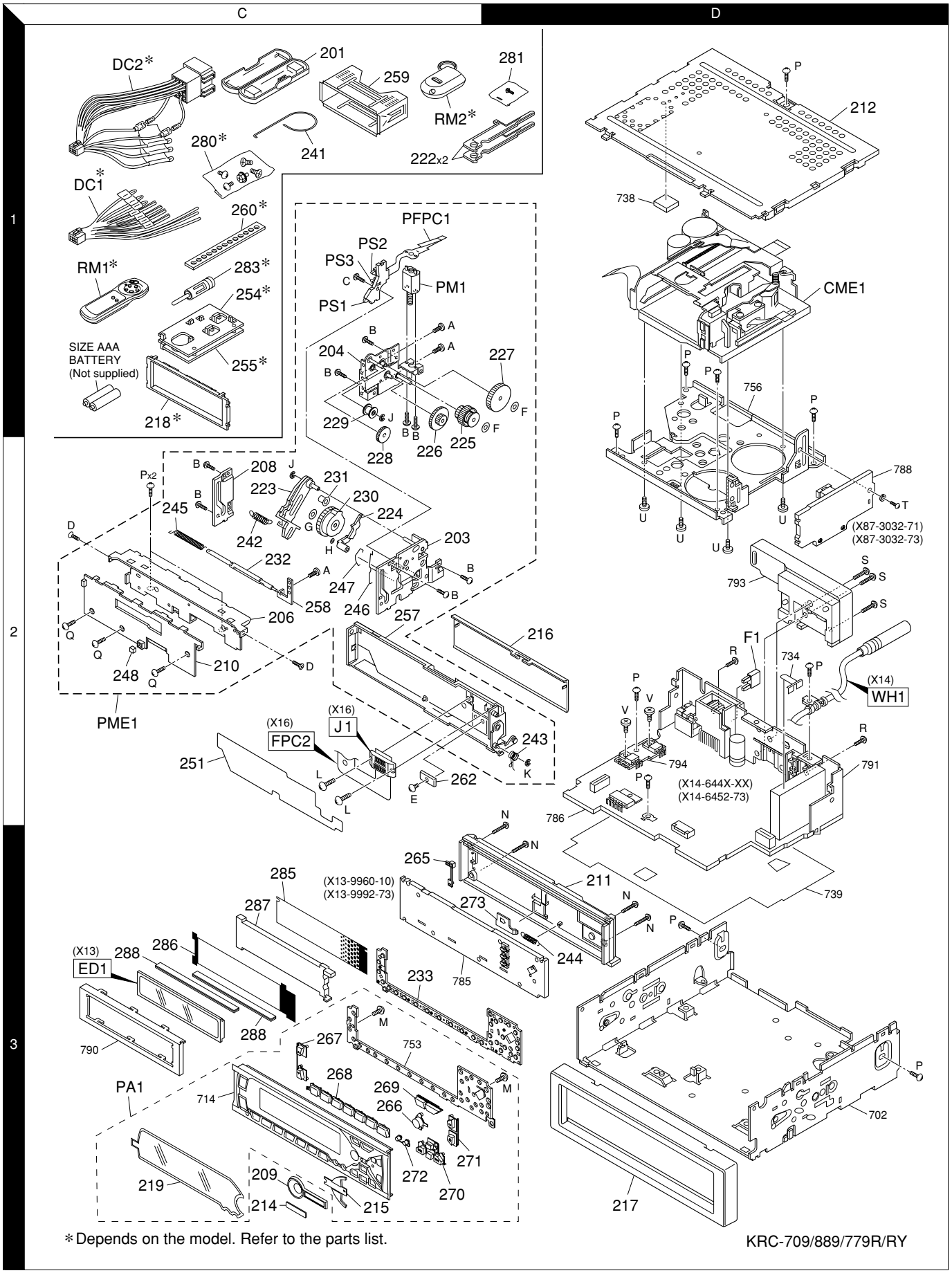
EXPLODED VIEW(MECHANISM)



KRC-709,889,779R/RY

KRC-709,779R/RY,889

EXPLODED VIEW(UNIT)



Parts with exploded numbers larger than 700 are not supplied.

KRC-709,779R/RY,889

PARTS LIST

✻ New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

Ref.No.	Add	New	Parts No.	Description	Destination
KRC-709/779R/RY/889					
201	1C	✻	A02-1497-03	PLASTIC CABINET ASSY	
203	2C		A10-4807-13	CHASSIS CALKING ASSY	
204	1C		A10-4810-13	CHASSIS CALKING ASSY	
206	2C	✻	A10-4834-02	CHASSIS	
208	2C	✻	A10-4893-04	CHASSIS CALKING ASSY	
209	3C		A21-4072-03	DRESSING PANEL	
210	2C		A22-2867-03	SUB PANEL ASSY	
211	3D		A46-1691-01	REAR COVER	
212	1D	✻	A52-0784-02	TOP PLATE	
PA1	3C	✻	A64-2130-02	PANEL ASSY	K
PA1	3C	✻	A64-2132-02	PANEL ASSY	M2
PA1	3C		A64-2134-02	PANEL ASSY	E5E7
PME1	2C	✻	A10-4814-12	CHASSIS ASSY	
RM1	1C		A70-0883-05	REMOTE CON. ASSY (RC-500)	KM2
RM2	1C		A70-0886-15	REMOTE CON. ASSY (MASK-KEY)	E5E7
214	3C		B03-3070-04	DRESSING PLATE (BADGE)	
215	3C		B03-3071-03	DRESSING PLATE	
216	2C		B03-3073-02	DRESSING PLATE (BLACK)	
217	3D	✻	B07-3007-03	ESCUTCHEON ASSY	
218	1C		B07-3010-02	ESCUTCHEON (J-CAR)	KM2
219	3C	✻	B10-3237-01	FRONT GLASS	K
219	3C	✻	B10-3239-01	FRONT GLASS	M2
219	3C	✻	B10-3242-01	FRONT GLASS	E5E7
-			B46-0100-50	WARRANTY CARD	KM2E5
-			B46-0606-04	ID CARD	K
-			B46-0612-14	ID CARD (CODE-SECURL)	M2
-			B46-0632-04	ID CARD (MASK-KEY)	E5E7
-			B58-1309-04	CAUTION CARD (MASK-KEY)	E5E7
-			B58-1376-04	CAUTION CARD (DNPS)	
-		✻	B58-1379-04	CAUTION CARD	E5
-		✻	B64-1906-00	INST.MANUAL(ENG.FRE.SPA.)	KM2
-		✻	B64-1910-00	INST.MANUAL(ARABIC)	M2
-		✻	B64-1917-00	INST.MANUAL(ENGLISH)	E5
-		✻	B64-1918-00	INST.MANUAL(FRE.GER.DUT.)	E5
-		✻	B64-1919-00	INST.MANUAL(ITA.SPA.POR.)	E5
-		✻	B64-1920-00	INST.MANUAL(ENGLISH)	E7
-		✻	B64-1921-00	INST.MANUAL(RUS.POL.CZE.)	E7
-		✻	B64-1922-00	INST.MANUAL(HUN.CRO.SLO.)	E7
222	1C		D10-4562-04	LEVER	
223	2C		D10-4563-04	ARM ASSY	
224	2C		D10-4590-04	ARM	
225	2C		D13-2135-04	GEAR ASSY	
226	2C		D13-2138-04	GEAR	
227	1C		D13-2139-04	GEAR	
228	2C		D13-2140-04	GEAR	
229	2C		D13-2141-14	GEAR ASSY	
230	2C		D13-2165-03	GEAR ASSY	
231	2C		D14-0754-04	ROLLER	
232	2C		D14-0760-03	ROLLER	
CME1	1D		D40-1146-05	CASSETTE MECHANISM ASSY	
233	3C	✻	E29-1824-02	CONDUCTIVE RUBBER	
DC1	1C	✻	E30-4939-05	DC CORD	M2
DC1	1C	✻	E30-4940-05	DC CORD	K
DC2	1C	✻	E30-4942-05	DC CORD	E5E7
F1	2D		F52-0006-05	FUSE(MINI BLADE TYPE)10A	
241	1C		G01-2924-04	TORSION COIL SPRING	
242	2C		G01-3065-04	EXTENSION SPRING	
243	3C		G01-3066-14	TORSION COIL SPRING	
244	3C		G01-3069-04	EXTENSION SPRING	
245	2C		G01-3080-04	TORSION COIL SPRING	
246	2C		G09-2038-04	FORMED WIRE	
247	2C		G09-2042-04	FORMED WIRE	
248	2C	✻	G11-1927-04	CUSHION	
251	3C		G16-1177-04	SHEET	
-		✻	H10-4767-12	POLYSTYRENE FOAMED FIXTURE	E7
-		✻	H10-4768-12	POLYSTYRENE FOAMED FIXTURE	KM2
-		✻	H10-4783-02	POLYSTYRENE FOAMED FIXTURE	E5
-			H25-0329-04	PROTECTION BAG (280X450X0.03)	KM2E7
-			H25-0337-04	PROTECTION BAG (180X300X0.03)	
-			H25-1108-04	PROTECTION BAG (100X300X0.03)	
-			H25-1111-04	PROTECTION BAG (280X450X0.03)	E5
-		✻	H54-2040-13	ITEM CARTON CASE	K
-		✻	H54-2042-03	ITEM CARTON CASE	M2
-		✻	H54-2052-03	ITEM CARTON CASE	E7
-		✻	H54-2089-03	ITEM CARTON CASE	E5
254	1C		J19-5051-03	BRACKET (J-CAR/L)	KM2
255	1C		J19-5052-03	BRACKET (J-CAR/R)	KM2
257	2C		J21-9651-13	MOUNTING HARDWARE ASSY	
258	2C		J21-9699-04	MOUNTING HARDWARE	
259	1C		J21-9716-03	MOUNTING HARDWARE ASSY	
260	1C		J54-0606-04	STAY	KM2
262	3C		J90-0999-04	GUIDE	
PFPC1	1C		J84-0122-04	FLEXIBLE PRINTED WIRING BOARD	
265	3C		K24-3646-04	KNOB (OPEN)	
266	3C	✻	K24-3647-04	KNOB (AUD)	
267	3C	✻	K25-1222-03	KNOB (VOL)	
268	3C	✻	K25-1223-03	KNOB (PRESET)	
269	3C	✻	K25-1224-03	KNOB (SRC)	
270	3C	✻	K25-1225-03	KNOB (FM,AM)	
271	3C	✻	K25-1226-03	KNOB (EJECT)	
272	3C	✻	K25-1227-03	KNOB (DISP)	
273	3C	✻	K29-7017-03	KNOB (LOCK)	
280	1C		N99-1652-05	SCREW SET	KM2
281	1C	✻	N99-1704-05	SCREW SET	
A	2C		N09-4400-05	MACHINE SCREW	
B	2C		N09-4401-05	MACHINE SCREW	
C	1C		N09-4427-05	TAPTITE SCREW	
D	2C	✻	N09-4448-05	MACHINE SCREW	
E	3C	✻	N09-4449-05	MACHINE SCREW	
F	2D		N19-2154-04	FLAT WASHER	
G	2C		N19-2155-04	FLAT WASHER	
H	2C		N19-2156-04	FLAT WASHER	
J	2C		N29-0522-05	RETAINING RING	
K	3C		N29-0523-05	RETAINING RING	

E: Europe **K**: North America **M**: Other Areas
W: Without Europe

K : KRC-709 **M2** : KRC-889
E5 : KRC-779R **E7** : KRC-779RY

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PARTS LIST

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Ref.No.	Add	New	Parts No.	Description				Destination
L	3C		N38-2025-46	PAN HEAD MACHIN SCREW				
M	3C		N80-2005-46	PAN HEAD TAPTITE SCREW				
N	3D		N80-2008-45	PAN HEAD TAPTITE SCREW				
P	1D		N83-3005-46	PAN HEAD TAPTITE SCREW				
Q	2C		N86-2004-45	BINDING HEAD TAPTITE SCREW				
T	2D		N09-4377-05	TAPTITE SCREW (2X5S SW C-MECH)				
U	2D		N09-4368-05	MACHINE SCREW (C-MECHA.)				
PS1 -3	1C		S68-0856-05	PUSH SWITCH				
283	1C		T90-0523-05	ANTENNA ADAPTOR				E5E7
283	1C		T90-0534-05	ANTENNA ADAPTOR				E5E7
PM1	1C		T42-1034-04	MOTOR ASSY				
SWITCH UNIT (X13-9960-10 /9992-73)								
285	3C		B11-1347-04	REFLECTION SHEET				
286	3C		B11-1324-04	OPTICAL DIFFUSER				
287	3C		B19-2062-03	LIGHTING BOARD				
D2 -4			B30-1571-05	LED(WHITE)				
D5 -22		✻	B30-1605-05	LED(2COLOR PG/RED)				
D23			B30-1564-05	LED(1608,BLUE)				
ED1			B38-1051-05	LIQUID CRYSTAL				
C1			CC73GCH1H681J	CHIP C	680PF	J		
C2 -5			CK73GB1C104K	CHIP C	0.10UF	K		
C2 -5			CK73GB1H104K	CHIP C	0.10UF	K		
C6 ,7			CK73EB1C225K	CHIP C	2.2UF	K		
C8 -11			CK73GB1H103K	CHIP C	0.010UF	K		
288	3C		E29-1596-04	CONDUCTIVE RUBBER				
J1		✻	E59-0835-05	RECTANGULAR PLUG				
CP1			R90-1016-05	MULTI-COMP	470		X4	
CP2 ,3			R90-0724-05	MULTI-COMP	1K		X4	
R1			RK73GB1J433J	CHIP R	43K	J	1/16W	
R2 -5			RK73GB1J222J	CHIP R	2.2K	J	1/16W	
R6			RK73GB1J102J	CHIP R	1.0K	J	1/16W	
R7 ,8			RK73GB1J223J	CHIP R	22K	J	1/16W	
R9			RK73FB2A101J	CHIP R	100	J	1/10W	
R10			RK73GB1J102J	CHIP R	1.0K	J	1/16W	
R11			RK73FB2A4R7J	CHIP R	4.7	J	1/10W	
R12			RK73GB1J751J	CHIP R	750	J	1/16W	
R13 ,14			RK73GB1J102J	CHIP R	1.0K	J	1/16W	
R15 ,16			RK73GB1J103J	CHIP R	10K	J	1/16W	
R17 -21			RK73EB2B331J	CHIP R	330	J	1/8W	
R22			RK73EB2B511J	CHIP R	510	J	1/8W	
R23			RK73EB2B361J	CHIP R	360	J	1/8W	
R24			RK73EB2B331J	CHIP R	330	J	1/8W	
R25 ,26			RK73FB2A122J	CHIP R	1.2K	J	1/10W	
S31			S70-0864-05	TACT SWITCH				
D1			MA3091-M	ZENER DIODE				
IC1			LC75808W	MOS-IC				
IC2			RS-171	ANALOGUE IC				
Q2			DTA114EUA	DIGITAL TRANSISTOR				
Q3 ,4			2SD2114K	TRANSISTOR				
Q5			2SC2412K	TRANSISTOR				
Q6			DTA114EUA	DIGITAL TRANSISTOR				
Q7			DTC143ZK	DIGITAL TRANSISTOR				
SYNTHESIZER UNIT (X14-644X-XX /6452-73)								
C1 ,2			C90-2606-05	ELECTRO	0.47UF	50WV		
C3			CE04CW0J470M	ELECTRO	47UF	6.3WV		
C5 ,6			CK73GB0J105K	CHIP C	1.0UF	K		
C27 -30			C90-2597-05	ELECTRO	10UF	16WV		
C31 -34			C90-5297-05	NP-ELECT	0.22UF	50WV		
C35 -42			CK73GB1E473K	CHIP C	0.047UF	K		
C35 -42			CK73GB1H473K	CHIP C	0.047UF	K		
C59 ,60			CK73FB1H104K	CHIP C	0.10UF	K		
C80			CK73GB1H222K	CHIP C	2200PF	K		
C81			C90-5242-05	ELECTRO	3300UF	16WV		
C82			CE04CW1E101M	ELECTRO	100UF	25WV		
C83			CK73GB1H103K	CHIP C	0.010UF	K		
C84			C90-2594-05	ELECTRO	10UF	10WV		
C85			CE04CW0J101M	ELECTRO	100UF	6.3WV		
C86			CK73FB1C105K	CHIP C	1.0UF	K		
C87			CE04CW1A221M	ELECTRO	220UF	10WV		
C88			CK73GB1H102K	CHIP C	1000PF	K		
C89			CK73GB1H103K	CHIP C	0.010UF	K		
C90			C90-2598-05	ELECTRO	3.3UF	25WV		
C91			CK73GB1C683K	CHIP C	0.068UF	K		
C91		✻	CK73GB1H683K	CHIP C	0.068UF	K		
C92			C90-2602-05	ELECTRO	0.10UF	50WV		
C93			CK73GB1H103K	CHIP C	0.010UF	K		
C94			C90-2608-05	ELECTRO	1.0UF	50WV		
C95			CK73GB1H103K	CHIP C	0.010UF	K		E5E7
C96			CK73GB1H103K	CHIP C	0.010UF	K		
C98 ,99			CK73FB1C224K	CHIP C	0.22UF	K		
C108			CK73GB1H222K	CHIP C	2200PF	K		
C109			CK73GB1C104K	CHIP C	0.10UF	K		
C109			CK73GB1H104K	CHIP C	0.10UF	K		
C111			C90-2606-05	ELECTRO	0.47UF	50WV		
C112			CE04CW1C220M	ELECTRO	22UF	16WV		
C114			C90-2608-05	ELECTRO	1.0UF	50WV		
C131			CK73GB1H103K	CHIP C	0.010UF	K		
C132			CE04CW1A101M	ELECTRO	100UF	10WV		
C133			C90-2610-05	ELECTRO	2.2UF	50WV		
C135			CK73GB1A474K	CHIP C	0.47UF	K		
C136			CC73GCH1H151J	CHIP C	150PF	J		
C137,138			CK73GB1C104K	CHIP C	0.10UF	K		
C137,138			CK73GB1H104K	CHIP C	0.10UF	K		
C154			CE04DW1A101M	ELECTRO	100UF	10WV		
C156			CK73GB1E333K	CHIP C	0.033UF	K		
C156			CK73GB1H333K	CHIP C	0.033UF	K		
C157			CK73GB1H103K	CHIP C	0.010UF	K		
C172,173			CK73GB1H103K	CHIP C	0.010UF	K		E5E7
C174			CK73GB1H103K	CHIP C	0.010UF	K		KM2
C190			C90-2597-05	ELECTRO	10UF	16WV		
C191			CK73GB1H103K	CHIP C	0.010UF	K		
C221			CC73GCH1H100D	CHIP C	10PF	D		E5E7
C222			C90-2592-05	ELECTRO	10UF	6.3WV		E5E7
C223			CC73GCH1H100D	CHIP C	10PF	D		E5E7
C224			CC73GCH1H331J	CHIP C	330PF	J		E5E7

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Ref.No.	Add	New	Parts No.	Description			Destination
C225			CK73GB1H103K	CHIP C	0.010UF	K	E5E7
C226			C90-2592-05	ELECTRO	10UF	6.3WV	E5E7
C251			CK73GB1H103K	CHIP C	0.010UF	K	
C252			CE04CW0J470M	ELECTRO	47UF	6.3WV	
C256			CK73GB0J105K	CHIP C	1.0UF	K	
C301			CC73GCH1H220J	CHIP C	22PF	J	
C302			CC73GCH1H270J	CHIP C	27PF	J	
C303			CK73GB0J105K	CHIP C	1.0UF	K	
C304			CK73GB1H102K	CHIP C	1000PF	K	
C305-307			CK73GB1H103K	CHIP C	0.010UF	K	
C308			CK73GB1A474K	CHIP C	0.47UF	K	
CN1			E40-9557-05	FLAT CABLE CONNECTOR			
CN2			E40-5031-05	FLAT CABLE CONNECTOR			
CN3		✻	E41-0084-05	PIN ASSY			
CN4			E40-5036-05	FLAT CABLE CONNECTOR			
J1			E58-0863-15	RECTANGULAR RECEPTACLE			
J2			E63-0853-05	PIN JACK			
J3			E56-0834-05	CYLINDRICAL RECEPTACLE			
P1			E23-0745-05	TERMINAL			
W1 -21			E31-0001-00	JUMPER WIRE			
WH1			E30-4804-05	CORD WITH PLUG			
L1			L33-1039-05	LINE FILTER COIL			
L3 ,4			L40-4795-91	SMALL FIXED INDUCTOR(4.7UH,J)			
L5			L40-4791-17	SMALL FIXED INDUCTOR(4.7UH,K)			
L6			L40-4795-91	SMALL FIXED INDUCTOR(4.7UH,J)			
L7			L40-4791-17	SMALL FIXED INDUCTOR(4.7UH,K)			
L8 ,9			L40-4795-91	SMALL FIXED INDUCTOR(4.7UH,J)			
L10			L92-0075-05	CHIP FERRITE			
L12			L33-1170-05	CHOKE COIL ASSY			
X1			L78-0821-05	RESONATOR			
X2			L77-2738-05	CRYSTAL RESONATOR			
X3			L77-2002-05	CRYSTAL RESONATOR			E5E7
P	2D		N83-3005-46	PAN HEAD TAPTITE SCREW			
R	2D		N80-3008-46	PAN HEAD TAPTITE SCREW			
S	2D	✻	N84-3014-46	PAN HEAD TAPTITE SCREW			
V	2D		N09-4318-05	MACHINE SCREW (M3X5)			
CP1			R90-0737-05	MULTI-COMP	100K	X2	
CP2			R90-0718-05	MULTI-COMP	4.7K	X4	
CP3			R90-0724-05	MULTI-COMP	1K	X4	
CP4			R90-0725-05	MULTI-COMP	1K	X2	
CP7			R90-1013-05	MULTI-COMP	2.2K	X2	E5E7
CP8 ,9			R90-0719-05	MULTI-COMP	4.7K	X2	
CP10			R90-0718-05	MULTI-COMP	4.7K	X4	
R1 ,2			RK73EB2B100J	CHIP R	10	J 1/8W	
R3			RK73EB2B4R7J	CHIP R	4.7	J 1/8W	
R7 -10			RK73GB1J361J	CHIP R	360	J 1/16W	
R11 -14			RK73GB1J103J	CHIP R	10K	J 1/16W	
R23 ,24			RK73GB1J223J	CHIP R	22K	J 1/16W	
R33 ,34			RK73FB2A181J	CHIP R	180	J 1/10W	
R37 ,38			RK73GB1J223J	CHIP R	22K	J 1/16W	
R47 ,48			RK73FB2A181J	CHIP R	180	J 1/10W	
R71			RK73EB2B101J	CHIP R	100	J 1/8W	
R72 -76			RK73EB2B472J	CHIP R	4.7K	J 1/8W	

SYNTHESIZER UNIT (X14-644X-XX /6452-73)

Ref.No.	Add	New	Parts No.	Description				Destination
R77 ,78			RK73EB2B470J	CHIP R	47	J	1/8W	
R80 -83			RK73GB1J104J	CHIP R	100K	J	1/16W	
R87			R92-3047-05	CHIP R	24K	D	1/10W	
R89			R92-3032-05	CHIP R	4.3K	D	1/10W	
R90			RK73GB1J153J	CHIP R	15K	J	1/16W	
R92			RK73EB2B221J	CHIP R	220	J	1/8W	
R93			RK73GB1J223J	CHIP R	22K	J	1/16W	
R94			RK73GB1J101J	CHIP R	100	J	1/16W	
R95			RK73GB1J223J	CHIP R	22K	J	1/16W	
R96			RK73GB1J222J	CHIP R	2.2K	J	1/16W	
R97 ,98			RK73FB2A123J	CHIP R	12K	J	1/10W	
R99			RK73GB1J562J	CHIP R	5.6K	J	1/16W	
R100			RD14DB2H332J	SMALL-RD	3.3K	J	1/2W	
R101,102			RK73EB2B104J	CHIP R	100K	J	1/8W	
R103			RK73GB1J183J	CHIP R	18K	J	1/16W	
R104			RK73FB2A472J	CHIP R	4.7K	J	1/10W	
R106			RK73FB2A223J	CHIP R	22K	J	1/10W	KM2
R107			RK73FB2A472J	CHIP R	4.7K	J	1/10W	
R108			RD14DB2H102J	SMALL-RD	1.0K	J	1/2W	
R109			RK73FB2A223J	CHIP R	22K	J	1/10W	
R110			RD14DB2H102J	SMALL-RD	1.0K	J	1/2W	
R111			RK73EB2B103J	CHIP R	10K	J	1/8W	
R112			RK73GB1J104J	CHIP R	100K	J	1/16W	
R113			RK73EB2B103J	CHIP R	10K	J	1/8W	E5E7
R114			RK73FB2A561J	CHIP R	560	J	1/10W	M2E5E7
R115			RK73FB2A122J	CHIP R	1.2K	J	1/10W	
R116			RK73GB1J104J	CHIP R	100K	J	1/16W	
R117			RK73EB2B102J	CHIP R	1.0K	J	1/8W	M2E5E7
R118			RD14DB2H102J	SMALL-RD	1.0K	J	1/2W	
R119			RK73FB2A103J	CHIP R	10K	J	1/10W	
R120			RK73FB2A122J	CHIP R	1.2K	J	1/10W	
R121,122			R92-2104-05	CHIP R	2.2	J	1W	
R123			RD14DB2H102J	SMALL-RD	1.0K	J	1/2W	KM2
R124			RK73FB2A751J	CHIP R	750	J	1/10W	
R125			RD14DB2H102J	SMALL-RD	1.0K	J	1/2W	KM2
R126			RK73EB2B2R2J	CHIP R	2.2	J	1/8W	
R131			RK73GB1J473J	CHIP R	47K	J	1/16W	
R134			RK73GB1J152J	CHIP R	1.5K	J	1/16W	
R135			RK73FB2A101J	CHIP R	100	J	1/10W	
R136			RK73FB2A392J	CHIP R	3.9K	J	1/10W	
R161,162			RK73GB1J472J	CHIP R	4.7K	J	1/16W	
R165,166			RK73EB2B102J	CHIP R	1.0K	J	1/8W	
R167,168			RK73GB1J223J	CHIP R	22K	J	1/16W	
R169			RK73GB1J103J	CHIP R	10K	J	1/16W	
R170			RK73GB1J102J	CHIP R	1.0K	J	1/16W	
R171			RK73GB1J472J	CHIP R	4.7K	J	1/16W	
R190			RK73FB2A121J	CHIP R	120	J	1/10W	
R191			RK73GB1J104J	CHIP R	100K	J	1/16W	
R192			RK73GB1J222J	CHIP R	2.2K	J	1/16W	
R193			RK73GB1J104J	CHIP R	100K	J	1/16W	
R194			RK73FB2A471J	CHIP R	470	J	1/10W	
R195,196			RK73GB1J222J	CHIP R	2.2K	J	1/16W	
R198			RK73GB1J473J	CHIP R	47K	J	1/16W	
R199			RK73GB1J104J	CHIP R	100K	J	1/16W	
R217			RK73GB1J473J	CHIP R	47K	J	1/16W	

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E5 : KRC-779R **E7** : KRC-779RY

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R218			RK73GB1J472J	CHIP R	4.7K	J	1/16W	
R219			RK73GB1J102J	CHIP R	1.0K	J	1/16W	E5E7
R220			RK73GB1J472J	CHIP R	4.7K	J	1/16W	E5E7
R221			RK73FB2A100J	CHIP R	10	J	1/10W	E5E7
R286			RK73GB1J473J	CHIP R	47K	J	1/16W	E5E7
R288			RK73GB1J104J	CHIP R	100K	J	1/16W	KM2
R288			RK73GB1J223J	CHIP R	22K	J	1/16W	E5E7
R289			RK73GB1J104J	CHIP R	100K	J	1/16W	
R301			RK73GB1J102J	CHIP R	1.0K	J	1/16W	
R302,303			RK73GB1J471J	CHIP R	470	J	1/16W	
R304,305			RK73GB1J472J	CHIP R	4.7K	J	1/16W	
R306			RK73GB1J222J	CHIP R	2.2K	J	1/16W	
R307			RK73GB1J225J	CHIP R	2.2M	J	1/16W	
R308,309			RK73GB1J102J	CHIP R	1.0K	J	1/16W	
R310-313			RK73GB1J103J	CHIP R	10K	J	1/16W	
R315			RK73GB1J472J	CHIP R	4.7K	J	1/16W	
R321			RK73GB1J104J	CHIP R	100K	J	1/16W	E5E7
R322			RK73GB1J104J	CHIP R	100K	J	1/16W	KM2
R323			RK73GB1J104J	CHIP R	100K	J	1/16W	M2
R324			RK73GB1J104J	CHIP R	100K	J	1/16W	KE5E7
R326			RK73GB1J104J	CHIP R	100K	J	1/16W	
R328			RK73GB1J104J	CHIP R	100K	J	1/16W	
R331-333			RK73GB1J102J	CHIP R	1.0K	J	1/16W	
R335			RK73GB1J222J	CHIP R	2.2K	J	1/16W	
R336,337			RK73GB1J104J	CHIP R	100K	J	1/16W	KM2
R338			RK73GB1J102J	CHIP R	1.0K	J	1/16W	
R339			RK73GB1J103J	CHIP R	10K	J	1/16W	
R340			RK73GB1J222J	CHIP R	2.2K	J	1/16W	E5E7
R341			RK73GB1J104J	CHIP R	100K	J	1/16W	KM2
R344			RK73GB1J471J	CHIP R	470	J	1/16W	
R345			RK73GB1J104J	CHIP R	100K	J	1/16W	
R347			RK73GB1J105J	CHIP R	1.0M	J	1/16W	
R348			RK73GB1J223J	CHIP R	22K	J	1/16W	
R352			RK73GB1J473J	CHIP R	47K	J	1/16W	
R357			RK73GB1J103J	CHIP R	10K	J	1/16W	
R359			RK73GB1J102J	CHIP R	1.0K	J	1/16W	
R361			RK73GB1J102J	CHIP R	1.0K	J	1/16W	
R364			RK73GB1J470J	CHIP R	47	J	1/16W	
R365,366			RK73GB1J473J	CHIP R	47K	J	1/16W	
R367			RK73GB1J102J	CHIP R	1.0K	J	1/16W	
R370			RK73EB2B471J	CHIP R	470	J	1/8W	
R371,372			RK73EB2B102J	CHIP R	1.0K	J	1/8W	
R373,374			RK73EB2B471J	CHIP R	470	J	1/8W	
R375			RK73EB2B102J	CHIP R	1.0K	J	1/8W	
R377			RK73EB2B102J	CHIP R	1.0K	J	1/8W	
W102			R92-1252-05	CHIP R	0 OHM			KM2
W102-104			R92-1252-05	CHIP R	0 OHM			E5E7
W104			R92-1252-05	CHIP R	0 OHM			KM2
W106			R92-2052-05	CHIP R	0	J	1/10W	
D1			RD6.8MW	ZENER DIODE				
D2			IMSA-6801	SURGE ABSORBER				
D3			MA3062-M	ZENER DIODE				
D5 ,6			DAP202K	DIODE				
D11 -18			AM01Z	DIODE				

SYNTHESIZER UNIT (X14-644X-XX /6452-73)

Ref.No.	Add	New	Parts No.	Description	Destination
D11 -18			DSM1SD2	DIODE	
D11 -18			ERA15-02	DIODE	
D21			MA3062WA	ZENER DIODE	
D22			MA3062-M	ZENER DIODE	
D31			RM10ZLF	DIODE	
D32			RB160L-40	DIODE	
D33			MA4056(N)-M	ZENER DIODE	
D36			MA4056(N)-M	ZENER DIODE	
D37			MA4062(N)-M	ZENER DIODE	
D38 -40			AM01Z	DIODE	
D41			1SS133	DIODE	
D42			MA4220-H	ZENER DIODE	
D43			MA4056-M	ZENER DIODE	M2E5E7
D44			AM01Z	DIODE	
D44			DSM1SD2	DIODE	
D44			ERA15-02	DIODE	
D45		✻	MA4075-M	ZENER DIODE	
D46		✻	MA4036-H	ZENER DIODE	
D50 ,51			DAP202K	DIODE	
D52			DAN202K	DIODE	
D53			MA4110-L	ZENER DIODE	
D81			MA3047-M	ZENER DIODE	E5E7
D82			DAN202K	DIODE	
IC1		✻	UPD703033GC050	MI-COM IC	
IC2			TDA7407D	ANALOGUE IC	
IC3			M5237ML	IC(VOLTAGE REGULATOR)	
IC4			TA8263BH	ANALOGUE IC	
IC10			TC74HC02AF	IC	
IC11			TDA7479D	ANALOGUE IC	E5E7
IC13			BA6238A	ANALOGUE IC	
IC15		✻	S-80837ANNP	MOS-IC	
Q1 -4			DTC143TK	DIGITAL TRANSISTOR	
Q18			DTC124EK	DIGITAL TRANSISTOR	
Q19			DTA124EK	DIGITAL TRANSISTOR	
Q20			2SB1548(P)	TRANSISTOR	
Q21			2SC2412K	TRANSISTOR	
Q22			2SB1548(P)	TRANSISTOR	
Q23			2SA1037K	TRANSISTOR	
Q24 ,25			2SC2412K	TRANSISTOR	
Q26			2SB1277(Q,R)	TRANSISTOR	KM2
Q27			DTC114YK	DIGITAL TRANSISTOR	KM2
Q28			2SB1277(Q,R)	TRANSISTOR	
Q29			2SA1037K	TRANSISTOR	
Q30			DTA124EK	DIGITAL TRANSISTOR	
Q31			DTC114YK	DIGITAL TRANSISTOR	
Q32			DTC144EK	DIGITAL TRANSISTOR	
Q33			2SB1184	TRANSISTOR	
Q34			2SC2412K	TRANSISTOR	
Q36			UMC2N	TRANSISTOR	
Q37			2SC2412K	TRANSISTOR	
Q38			2SB1443	TRANSISTOR	
Q39			DTA123JK	DIGITAL TRANSISTOR	M2E5E7
Q41			DTC114YK	DIGITAL TRANSISTOR	
Q42			2SB1443	TRANSISTOR	
Q43			DTC114YK	DIGITAL TRANSISTOR	

E: Europe **K**: North America **M**: Other Areas
W: Without Europe

K : KRC-709 **M2** : KRC-889
E5 : KRC-779R **E7** : KRC-779RY

⚠ indicates safety critical components.

PARTS LIST

✻ New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

Ref.No.	Add	New	Parts No.	Description	Destination
Q44			UMC2N	TRANSISTOR	
Q45			2SA1576A	TRANSISTOR	
Q46			DTC144EK	DIGITAL TRANSISTOR	
Q71			DTA124EK	DIGITAL TRANSISTOR	
Q72			DTC124EK	DIGITAL TRANSISTOR	
Q73			2SC2412K	TRANSISTOR	
Q85			DTC144EUA	DIGITAL TRANSISTOR	
Q86 ,87			DTC124EK	DIGITAL TRANSISTOR	
Q88 ,89			2SB1188(Q,R)	TRANSISTOR	
Q90			2SC2412K	TRANSISTOR	E5E7
TH1			PTH9C42BD471Q	POSITIVE RESISTOR	
A1		✻	X86-3240-11	TUNER UNIT	KM2
A1		✻	X86-3242-70	TUNER UNIT	E7
A1		✻	X86-3342-71	TUNER UNIT	E5
SUB-CIRCUIT UNIT (X16-1180-10 /1182-72)					
J1		✻	E58-0903-05	RECTANGULAR RECEPTACLE	
FPC2	3C	✻	J84-0121-12	FLEXIBLE PRINTED WIRING BOARD	
DOLBY NOISE REDUCTION UNIT (X87-3022-71 /3032-73)					
C1 -4			CC73GCH1H471J	CHIP C 470PF J	
C5			CE04NW1A330M	ELECTRO 33UF 10WV	
C6			CE04NW1A470M	ELECTRO 47UF 10WV	
C7 ,8			CK73GB1H103K	CHIP C 0.010UF K	
C11 -14			CK73GB1C104K	CHIP C 0.10UF K	
C11 -14			CK73GB1H104K	CHIP C 0.10UF K	
C15 ,16			CE04NW1A330M	ELECTRO 33UF 10WV	
C17			CK73GB1A474K	CHIP C 0.47UF K	
C20			CK73GB1H472K	CHIP C 4700PF K	
C23			CK73GB1A474K	CHIP C 0.47UF K	
C24			CK73GB1E333K	CHIP C 0.033UF K	
C24			CK73GB1H333K	CHIP C 0.033UF K	
CN2			E40-9218-05	PIN ASSY	
CN3			E40-9701-05	FLAT CABLE CONNECTOR	
CN4			E41-0083-05	PIN ASSY	
W1 -9			E31-0001-00	JUMPER WIRE	
R1 -4			RK73FB2A243J	CHIP R 24K J 1/10W	
R5 ,6			RK73FB2A181J	CHIP R 180 J 1/10W	
R7			RK73GB1J203J	CHIP R 20K J 1/16W	
R8			RK73GB1J224J	CHIP R 220K J 1/16W	
R9			RK73GB1J272J	CHIP R 2.7K J 1/16W	
R10			RK73GB1J333J	CHIP R 33K J 1/16W	
R11 ,12			RK73FB2A102J	CHIP R 1.0K J 1/10W	
R13			RK73EB2B4R7J	CHIP R 4.7 J 1/8W	
R14			RK73GB1J103J	CHIP R 10K J 1/16W	
VR1 ,2			R12-3100-05	TRIMMING POT.(10K)	
W11 ,12			R92-2052-05	CHIP R 0 J 1/10W	
W14			R92-2052-05	CHIP R 0 J 1/10W	
S1			S40-1140-05	PUSH SWITCH	
IC1			CXA2560Q	ANALOGUE IC	
Q1			DTC124EK	DIGITAL TRANSISTOR	

Ref.No.	Add	New	Parts No.	Description	Destination
CASSETTE MECHANISM ASSY (D40-1146-05)					
1	2B		A10-4630-08	CHASSIS ASSY	
4	3B		D10-4375-08	SLIDER (MAIN PLATE)	
5	3A		D13-1494-08	GEAR (B)	
6	3A		D13-1495-08	GEAR (C)	
7	3A		D13-1496-08	GEAR (D)	
9	2B		D10-4376-08	ARM (P-G PLATE)	
10	2B		J90-0948-08	GUID	
11	2B		D15-0919-08	PULLEY (MID)	
12	2B		D13-1497-08	GEAR (P)	
15	2B		J21-9458-08	MOUNTING HARDWARE (HEAD P-AS)	
17	2B		G02-1332-08	FLAT SPRING (HEAD SP-P)	
20	2A		D13-1498-08	RACK GEAR (OP PLATE A)	
21	1A		D10-4377-08	LEVER (EJ-LEV-A)	
22	3B		D10-4378-08	LEVER (SB.PL-AS)	
23	2A		D10-4379-08	LEVER (OP-PL-HO)	
24	1A		D10-4380-08	LEVER (EJE-LEV-A)	
25	1A		G01-2960-08	TENSION COIL SPRING (E LEV-SP)	
26	3A		D13-1499-08	GEAR (FR)	
27	3A		D10-4381-08	ARM (FR-PLATE)	
30	2B		D10-4382-08	ARM ASSY (PINCH ROLLER F)	
31	2B		D10-4383-08	ARM ASSY (PINCH ROLLER R)	
33	1B		G01-2961-08	TORSION SPRING (SA)	
34	2B		D10-4384-08	ARM (SW)	
44	1A	✻	E39-0425-08	LEAD WIRE (MOTOR)	
45	2A		J11-0632-08	CLAMPER	
48	3B		D01-0613-08	FLYWHEEL ASSY	
49	3B		D16-0616-08	BELT	
52	1B		D10-4385-08	ARM (CASSETTE LIFTER B)	
53	1B		J19-4953-08	CASSETTE HOLDER	
54	1A		G11-1861-08	CUSHION	
56	1B		D10-4386-08	ARM ASSY	
57	1B		G01-2962-08	TENSION COIL SPRING	
58	1B		D10-4387-08	SLIDER	
65	2A		B09-0522-08	REEL CAP	
66	2A		G01-2963-08	COMPRESSION SPRING	
67	2A		D03-0314-08	REEL GEAR ASSY	
91	3A	✻	J26-4043-08	PRINTED WIRING BOARD ASSY	
92	3A	✻	E39-0424-08	FLAT CABLE (FFC-M9)	
94	3A		T95-0245-08	PHOTO COUPLER	
A	3A		N09-4324-08	SCREW (2X2.5)	
B	2A		N19-2136-08	FLAT WASHER (1.55X35)	
C	2A		N09-4325-08	SCREW (2X13ADS)	
D	2A		N09-4326-08	SCREW (2X3)	
E	2A		N09-4058-08	SEMS (2X3AMS)	
F	2B		N19-2038-08	FLAT WASHER (0.85X2.8)	
G	2B		N19-2136-08	FLAT WASHER (1.55X3)	
H	2B		N19-2137-08	FLAT WASHER (2.1X3.5)	
J	3B		N19-2138-08	FLAT WASHER (2.1X3.5)	
K	3B		N09-4327-08	SCREW	
N	1B		N19-2139-08	FLAT WASHER (2.1X4.0)	
CM1	1A		T42-1002-08	MOTOR ASSY (MAIN)	
CM2	1A		T42-1001-08	MOTOR ASSY (SUB A)	
HD1	2B		T31-0226-08	PLAYBACK HEAD	

E: Europe **K**: North America **M**: Other Areas
W: Without Europe

K : KRC-709 **M2** : KRC-889
E5 : KRC-779R **E7** : KRC-779RY

⚠ indicates safety critical components.

SPECIFICATIONS

		KRC-709
FM	Frequency Range (Frequency step)	87.9MHz-107.9MHz (200kHz)
	Channel Space Selection	50k/200kHz
	Usable Sensitivity S/N 30dB	9.3dBf (0.8µV/75Ω)
	Quieting Sensitivity S/N 50dB	15.2dBf (1.6µV/75Ω)
	Frequency Response (±3.0dB)	30Hz-15kHz
	S/N	70dB(MONO)
	Selectivity	≧80dB(±400kHz)
	Stereo Separation	40dB(1kHz)
AM	Frequency Range (Frequency step)	530kHz-1700kHz (10kHz)
	Channel Space Selection	9k/10kHz
	Usable Sensitivity S/N 20dB	28dBµ (25µv)
CASSETTE	Tape Speed	4.76cm/sec.
	Wow/Flutter(wrms)	0.08%(WRMS)
	FREQ. Response (Hz) (±3.0dB)	30-20kHz(70µs)
	Separation	43dB(1kHz)
	S/N(dB) Dolby NR off	57dB
	Dolby BNR on	65dB
Preout Level(mV)/Load		1800mV/10kΩ(CD/CD-CH)
Preout Impedance(Ω)		≦600Ω
AMPLIFIER	Maximum Power	47W x4
	Full Bandwidth Power (at less than 1% THD)	22W x4
TONE	Bass	100Hz ± 10dB
	Middle	1kHz ± 10dB
	Treble	10kHz ± 10dB
GENERAL	Operating Voltage (11~16V allowable)	14.4V
	Current Consumption	10A
	Installation Size (W)	182(mm) 7-3/16(in)
	(H)	53(mm) 2-1/16(in)
	(D)	155(mm) 8-5/16(in)
	Weight	3.7lbs(1.7kg)

		KRC-779R,RY
FM	Frequency Range(MHz) (Frequency step)	87.5kHz~108.0kHz (50kHz)
	Usable Sensitivity (S/N 26dB)	0.7µV/75Ω
	Quieting Sensitivity (S/N 46dB)	1.6µV/75Ω
	Frequency Response (±3.0dB)	30Hz~15kHz
	S/N(dB)	65dB(MONO)
	Selectivity(DIN)(dB)	≧80dB(±400kHz)
	Stereo Separation	35dB(1kHz)
MW (AM)	Frequency Range(kHz) (Frequency step)	531kHz~1611kHz (9kHz)
	Usable Sensitivity (S/N 20dB)	25µV
LW	Frequency Range(kHz)	153kHz~281kHz
	Usable Sensitivity (S/N 20dB)	45µV
CASSETTE	Tape Speed	4.76cm/sec.
	Wow/Flutter(wrms) (%)	0.08(%)(WRMS)
	FREQ. Response (Hz) (±3.0dB)	30~20kHz(70µs)
	Separation(dB)	43dB(1kHz)
	S/N(dB) Dolby NR OFF	57dB
	Dolby BNR on	65dB
Preout Level(mV)/Load -Unbalanced		1800mV/10kΩ(CD/CD-CH)
Preout Impedance(Ω)		≦600Ω
AMP	PWR(MAX)	47Wx4
	PWR DIN45324,+B=14.4V	29Wx4
TONE	Bass	100kHz±10dB
	Middle	1kHz±10dB
	Treble	10kHz±10dB
GENERAL	Operating voltage (11~18V allowable)	14.4V
	Current Consumption	10A
	Installation Size (W)	182(mm)
	(H)	53(mm)
	(D)	155(mm)
	Weight	1.7kg

KRC-709,779R/RY,889

SPECIFICATIONS

		KRC-889
FM	Frequency Range (Frequency step)	87.5MHz-108.0MHz(50kHz) 87.9MHz-107.9MHz(200kHz)
	Channel Space Selection	50k/200kHz
	Usable Sensitivity S/N 30dB	9.3dBf (0.8µV/75Ω)
	Quieting Sensitivity S/N 50dB	15.2dBf (1.6µV/75Ω)
	Frequency Response (±3.0dB)	30Hz-15kHz
	S/N	70dB(MONO)
	Selectivity	≧80dB(±400kHz)
	Stereo Separation	40dB(1kHz)
AM	Frequency Range (Frequency step)	531kHz-1611kHz(9kHz) 530kHz-1700kHz(10kHz)
	Channel Space Selection	9k/10kHz
	Usable Sensitivity S/N 20dB	28dBµ (25µv)
CASSETTE	Tape Speed	4.76cm/sec.
	Wow/Flutter(wrms)	0.08%(WRMS)
	FREQ. Response (Hz) (±3.0dB)	30-20kHz(70µs)
	Separation	43dB(1kHz)
	S/N(dB) Dolby NR off	57dB
	Dolby BNR on	65dB
Preout Level(mV)/Load -Unbalanced -Balanced		1800mV/10kΩ(CD/CD-CH)
Preout Impedance(Ω)		≦600Ω
AMPLIFIER	Maximum Power	47W x4
	Full Bandwidth Power (at less than 1% THD)	22W x4
TONE	Bass	100Hz ± 10dB
	Middle	1kHz ± 10dB
	Treble	10kHz ± 10dB
GENERAL	Operating Voltage (11~16V allowable)	14.4V
	Current Consumption	10A
	Installation Size (W) (H) (D)	182(mm) 53(mm) 155(mm)
	Weight	1.7kg

KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

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